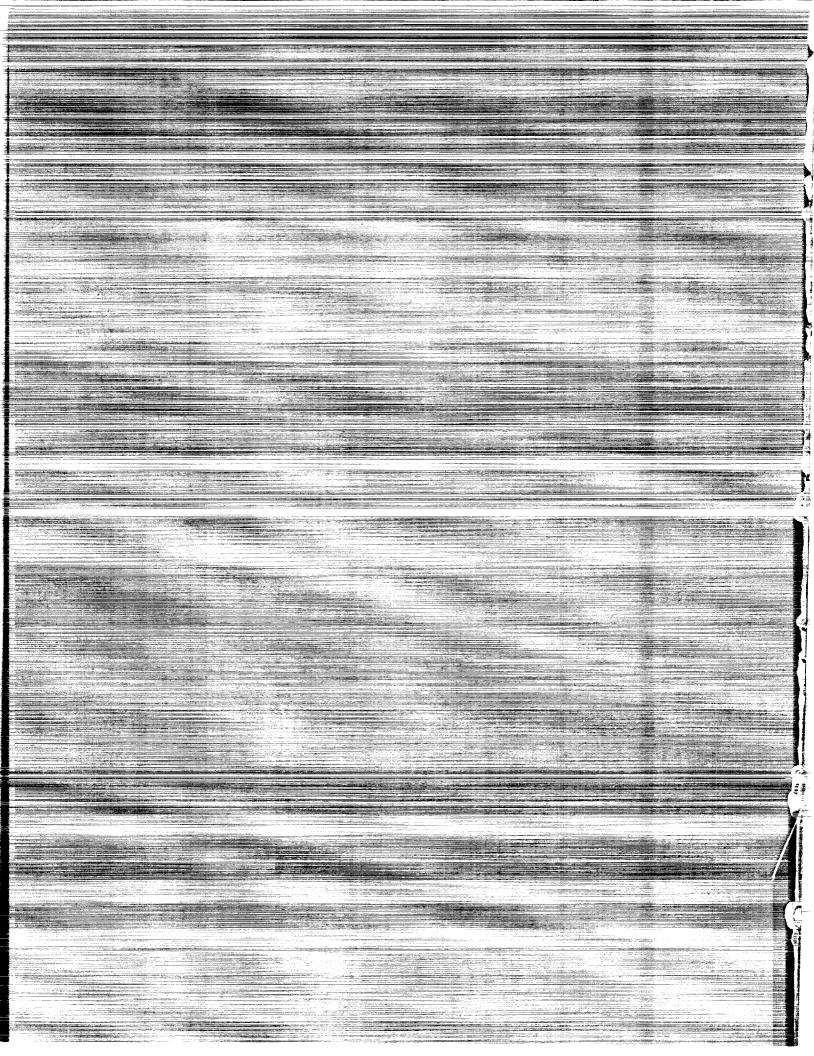
NASA Contractor Report 3561

Reconstruction of the 1st Space Shuttle (STS-1) Entry Trajectory

J. T. Findlay, G. M. Kelly, and M. L. Heck

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J. T. Findlay, G. M. Kelly, and M. L. Heck Analytical Mechanics Associates, Inc. Hampton, Virginia

Prepared for Langley Research Center under Contract NAS1-16087



Scientific and Technical Information Office

FOREWORD

The work was sponsored by NASA Langley Research Center under Contract NAS1-16087 to Analytical Mechanics Associates, Inc. The Technical Representative to the Contracting Officer is Mr. Harold R. Compton of the Aerothermodynamics Branch of the Space System Division. His management of this activity, support during software development and checkout, and leadership in establishing the necessary interfaces with the Johnson Space Center, the Goddard Space Flight Center, the Dryden Flight Research Center, and flight support personnel at Edwards Air Force Base has been instrumental in the generation of the post-flight entry reconstruction presented herein. Also, the LaRC Orbiter Experiments Data Manager, Ms. K. D. Brender, is acknowledged for her efforts in helping to establish the required interface as well as disseminating all of the required data. She, with contractual assistance from System Development Corporation, converted all of the required data for compatability with the LaRC computer system in an extremely timely manner. Also, the assistance of Ms. J. G. McConnell and Mr. M. W. Henry of AMA, Inc. in the generation of the BET and many of the final products in the report is greatly appreciated.

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LIST OF SYMBOLS

$\mathbf{A}_{\mathbf{x}}$	spacecraft linear acceleration along the $X_{\mbox{\footnotesize B}}$ axis
$\mathbf{A}_{\mathbf{y}}$	spacecraft linear acceleration along the $Y_{\overline{B}}$ axis
${\rm A}_{{\bf z}}$	spacecraft linear acceleration along the $Z_{\overline{B}}$ axis
C	computed observation
c_D	drag coefficient
$^{\mathrm{C}}_{\mathrm{L}}$	lift coefficient
$\mathbf{C}_{\boldsymbol{\ell}}$	rolling moment coefficient
c_{m}	pitching moment coefficient
$C_{\mathbf{n}}$	yawing moment coefficient
c_{y_B}	side force coefficient
h	altitude above oblate planet
L/D	lift to drag ratio
M	Mach no.
O	observation
O-C	observation residual
P	spacecraft angular rate about the X _B axis
P	spacecraft angular acceleration about the $X_{\overline{B}}$ axis
Q	spacecraft angular rate about the YB axis
Q	spacecraft angular acceleration about the Y axis
p	dynamic pressure
R	spacecraft angular rate about the $Z_{\overline{B}}$ axis
Ř	spacecraft angular acceleration about the Z_{D} axis

LIST OF SYMBOLS (continued)

	
u	North component of spacecraft inertial velocity
$u_{\overline{W}}$	North-South wind component
v	East component of spacecraft inertial velocity
v_{W}	East-West wind component
w	vertical (positive downward) component of spacecraft inertial velocity
\mathbf{w}_{W}	vertical (positive upward) wind component
	LIST OF GREEK SYMBOLS
α	angle-of-attack, positive nose up
β	side-slip angle, positive nose left
γ	flight path angle, positive above the horizon
θ	Euler pitch angle, positive nose upward from horizon
λ	longitude, positive East of Greenwich prime meridian
μ	mean
σ	spacecraft roll angle about the velocity vector
σ	standard deviation
$\Phi_{ m D}$	geodetic latitude
φ	Euler roll angle, positive right wing down
Ψ	velocity heading angle, positive clockwise from North
ψ	Euler yaw angle, positive clockwise from North

LIST OF SUBSCRIPTS

- A atmosphere relative
- B body axis
- D geodetic
- R planet relative
- W wind
- W weighted

LIST OF ACRONYMS

ACIP Aerodynamic Coefficient Identification Package

ACME Aerodynamic Coefficient Measurement Experiment

AFFTC Air Force Flight Test Center

AMA Analytical Mechanics Associates

AOS Acquisition of signal

BET Best Estimate Trajectory

DFRC NASA Dryden Flight Research Center

EAFC Edwards Air Force Base C-band radar

ENTREE Entry Trajectory Reconstruction Software

FRCC NASA Dryden Flight Research Center C-band radar

GMT Greenwich Mean Time

GSFC Goddard Space Flight Center

GWMS Guam S-band station

IMU Inertial Measurement Unit

JSC Johnson Space Center

LAIRS Langley Atmospheric Information Retrieval System

LaRC NASA Langley Research Center

LOS Loss of signal

MSBLS Microwave Scanning Beam

M50 Inertial Mean Equator and Equinox of 1950.0 system

OEX Orbiter Experiments

OI Orbiter Instrumentation

PPTC Pt. Pillar, California C-band station

PTPC Pt. Pillar, California C-band station

REFSMMAT IMU reference matrix

RMSW Weighted root mean square

SNIC St. Nicolas Island, California C-band station

STS Space Transportation System

TACAN Tactical Air Navigation

VDBC Vandenberg C-band station

VDFC Vandenberg C-band station

VDSC Vandenberg C-band station

ABSTRACT

A discussion of the generation of the Best Estimate Trajectory (BET) of the first NASA Space Shuttle Orbiter entry flight (STS-1) as reported by Compton, et al., in Reference 1 is presented. This work was sponsored by NASA LaRC under Contract No. NAS1-16087 to the Analytical Mechanics Associates, Inc. The BET defines a time history of the state, attitude, and (combined with the best available atmosphere as defined by the Langley Atmosphere Information Retrieval System (LAIRS)) atmospheric relative parameters throughout the Shuttle entry from an altitude of approximately 183 km to rollout on Runway 23 on the Roger's dry lake bed at Edwards Air Force Base. The inertial parameters were estimated utilizing a weighted least squares batch filter algorithm. Spacecraft angular rate and acceleration data derived from the Inertial Measurement Unit (IMU) were utilized to predict the state and attitude which was constrained in a weighted least squares process to fit external tracking data consisting of ground based S-band and C-band data. In addition, refined spacecraft altitude and velocity during and post rollout were obtained by processing artificial altimeter and Doppler data.

Appendix A is presented to provide for a general discussion of the BET generation process. This includes both software and data interface discussions as well as a definition of the variables and coordinate systems utilized. STS-1 mission peculiar inputs are summarized in Appendix B. Though the report contains tables and figures which show the more relevant results, it is virtually impossible to present all the information in this form. Thus, Appendix C is included which provides a listing of the contents of the actual BET.

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I. Introduction

The completion of the first successful flight of the Space Shuttle Columbia on April 14, 1981 opened a new era in NASA's manned spaceflight. Researchers at the NASA Langley Research Center, as well as others throughout the aerospace community, have proposed use of the Shuttle as a research vehicle for postflight aerodynamic and aerothermodynamic investigations (References 2, 3, and 4). The best postflight trajectory and atmospheric information is a necessary input for such investigations as the Aerodynamic Coefficient Measurement Experiment (ACME). Development of the best available atmosphere based on models as well as meteorological measurements is discussed in Reference 5. This report discusses the generation of the required trajectory information using the methods discussed by Compton, et al (Ref. 1,6). The process is functionally presented as Appendix A of this report in terms of a software overview and the required pre-processing of both the observational and dynamic data.

AMA, Inc., under NAS1-16087, is responsible for this postflight trajectory reconstruction, as well as generation of the final product for use by the user community. The reconstructed trajectory, based on onboard measurements of the spacecraft dynamics and ground based radar tracking, is necessarily an inertial product. To satisfy the total requirements of the aerodynamic and aerothermodynamic researchers, the final product (Ref. 7) merges the inertial reconstructed entry history with the best available atmospheric data. This product includes computation of the important atmospheric relative parameters as well as first order estimates of the flight derived total aerodynamic coefficients.

Section II presents a procedural discussion and includes an overview of the tracking coverages for STS-1. Mission specific input data are presented as Appendix B. Results are presented in Section III. Section IV summarizes these results and presents conclusions. Finally, a listing of the STS-1 BET parameters is presented as Appendix C.

II. Procedural Discussion

II.1 Mission and Spacecraft Specific Data

There are numerous flight-dependent inputs required by the various elements of the entry reconstruction software, ENTREE (Ref. 8). These are given in Appendix B. Tracking station locations, acronyms, and refraction constants are given in Table B-1. These data were obtained from the mission software data base, Revision G.02 (Ref. 10). The required IMU attitude transformation matrices are given in Table B-2. These data were obtained from the Johnson Space Center and Ref. 9. Assumed a priori parameter uncertainties are given in Table B-3. Planet model parameters, Runway 23 locations, IMU locations with respect to the Shuttle center-of-gravity and Shuttle mass properties and aerodynamic reference values are presented in Table B-4.

II. 2 Initial Condition State Vector

Initial position and velocity estimates in Cartesian Mean of 1950 (M50) coordinates were provided by the Math Physics Branch at JSC. This state vector was the real-time Guam tracking pass solution and was valid at $17^h42^m30^S$ GMT on April 14, 1981. Since the time was very close to Guam Acquisition of Signal (AOS), it was chosen as the epoch (63750.0 from midnight, day of entry) for the STS-1 BET. The 6-element state was transformed to ENTREE input coordinates (spherical, Earth-fixed, Earth true equator of date) using standard formulas. Figures A-3a and A-3b in Appendix A define the ENTREE variables of interest. Initial attitude estimates (one per each IMU) were obtained using the attitude transformation matrices given in Appendix B, the 6-element state, and the interpolated platform to outer roll quaternions (at the state vector epoch) from the telemetry tape. The resulting start vector conditions are shown in Table II-1. Note the consistency in attitude estimates among the IMUs.

II. 3 Dynamic Data

Dynamic data, which consists of measured spacecraft angular rates and linear accelerations, are required for the BET generation. This

requirement was satisfied by the IMU measurements. A performance evaluation among the three onboard IMUs (Ref. 11) showed very good consistency in their respective measurements. Based on this analysis and other comparisons of the IMU derived dynamic data, no "preferred" IMU could be determined. Since IMU2 had shown perhaps the best trajectory prediction capability (using initial condition estimates obtained from JSC), it was selected as the primary dynamic data source for BET development. However, as will be shown in Section III, very good trajectory solutions were also obtained using IMU1 and IMU3.

Essentially continuous measurements, i.e., no major data gaps, were obtained from each of the IMUs. IMU data covering the entire entry from the Guam AOS to approximately 17^S after vehicle stop were used. The only correction made to the "raw" data was a 0.007 sec adjustment to account for the spacecraft clock lagging the station clocks. This clock offset was provided by the JSC.

Figures II-1a through II-1c show the dynamics experienced by the space-craft during the STS-1 entry flight. Plotted are the body axis components of the angular rates (Fig. II-1a), the linear accelerations (Fig. II-1b) and the angular accelerations (Fig. II-1c). These data were derived from the 1 Hz (nominally) IMU2 measurements using the methods described in Appendix A. The spacecraft rates and accelerations in the platform frame were rotated to the body axes and translated to the vehicle center-cf-gravity. Angular accelerations were obtained by numerically differentiating the angular rate data.

II.4 Tracking Data

Radar tracking data from the Guam S-band station and eight(8) California C-band stations were used in reconstructing the STS-1 entry trajectory. Appendix B contains a list of the station acronyms, locations, and refraction constants. Appendix A describes the pre-processing required. In general, pre-processing was very straightforward and consisted primarily of reordering and units conversions. However, the Guam high speed S-band data obtained from GSFC required time-tag corrections. According to GSFC, this problem is unique to playback data and can be expected on subsequent

flights. The time-tag corrections were made using low speed real time listings obtained from both GSFC and JSC. The adjustments made are given below in terms of GMT time on April 14, 1981 and also, in parentheses, the time from the BET reference epoch.

- Range, Doppler from 17:44:16.3 (106.3) to the end of the pass were time-shifted earlier by 0.1
- X, Y-angles from 17:42:18 (-12.0) to 17:44:16.3 (106.3) were time-shifted earlier by 0.1 and from 17:44:16.3 (106.3) to the end of the pass were time-shifted earlier by 0.2

Fig. II-2 presents the complete STS-1 entry ground track (~ 40 min) overlaid on a geographical map segment. Also indicated are the tracking sites and approximate spacecraft altitudes at 500 sec increments along the track.

Tables II-2 and II-3 together with Figs. II-3a through II-3c illustrate the detailed tracking coverage. Table II-2 is a sequence of events for the trackers and shows acquisition of signal (AOS), loss of signal (LOS), and maximum elevation during the pass. Also, approximate observations are given at the specific times for information. In the case for the S-band station (GWMS), derived elevation data are shown. Table II-3 indicates the actual data are processed for each tracker, subject to the processing constraints (principally elevation angle cutoff) used.

Figure Π -3 presents the station coverage during each of the three main entry segments. The coverage for each station is shown by "rays" from the station to the ground track. Coverages indicated are the actual arcs processed (Table Π -3). Also, for better illustration, only one station from the Vandenberg and Pt. Pillar complexes are shown. Coverage for the other stations in these complexes is similar.

The limited upper altitude coverage and the importance of the Guam pass are shown in Fig. II-3a. In time and altitude, the Guam pass covers approximately three(3) minutes and an altitude range from ~ 183 km to ~ 145 km. The C-band stations were not acquired until approximately 21 minutes after

Guam LOS at an altitude of ~ 55 km. (The first C-band measurement processed was at 1577.0 corresponding to an altitude of ~ 50 km). Fig. II-3b indicated considerable overlapping C-band coverage for approximately $\sin(6)$ minutes over the altitude range from ~ 50 km to ~ 23 km. Fig. II-3c shows that during the last 6 minutes of the entry, from $h \sim 23$ km to $h \sim .06$ km, only Edwards and Dryden coverage was available. Dryden tracking lasted until main gear touchdown, whereas Edwards coverage ended about 17. 8 0 earlier.

In summary, for a 40 minute entry, radar tracking data processed were: (1) approximately three(3) minutes of high altitude coverage (183 km to 145 km) from Guam; (2) approximately six(6) minutes of 8-station overlapping C-band coverage (50 km to 23 km); (3) approximately five(5) minutes of the dual station coverage from approach to landing (23 km to .06 km).

All tracking data were processed at a 2 second data rate. A five(5) degree elevation angle cutoff constraint was used. An exception to this was the Dryden and Edwards Range and Azimuth data to enable better coverage at touchdown. The assumed data accuracies were based on preflight specifications and the actual scatter in fit residuals during processing. Assumed S-band accuracies were 1.5 m for Range; 0.3 Hz (~ 20 mm/sec) for Doppler; 0.2 mrad for both X and Y-angles. Those for C-band were: 9m for Range; 0.2 mrad for both Azimuth and Elevation angles. S-band X-angles were not processed when Y-angle measurements exceeded 70 degrees because of known X-angle inaccuracies in this region. In addition, C-band angles were not processed when the spacecraft was near zenith over Edwards and Dryden. All radar measurements, except C-band Azimuth, were corrected for atmospheric refraction using the algorithm given in Ref. 12. The modulus of refraction at each station was the mean monthly value for April as shown on Table B-2. Atmospheric scale heights were obtained using the algorithms of Ref. 12. Tracking observations were also corrected for the light-time delay using extensions of the procedures described in Ref. 13.

II.5 Other Observations

In addition to the C-band and S-band tracking data, two types of pseudo data were processed during and post rollout on the dry lake bed. During rollout, the vehicle c.g. is known to be about 4.8768 m above ground level, within ± 1 m due to strut deflections resulting from various aerodynamic and wheel brake loads acting on the vehicle. Thus, pseudo altimeter observations of 4.8768 m were processed every second from t = 2318.0 (following nosewheel touchdown) through the end of the estimation run at t = 2384.0 (16 seconds following vehicle stop). The altimeter data were weighted to an assumed 1 m (10) accuracy. In addition, beginning at t = 2370.0, pseudo Doppler data consisting of 0.0 Hz (null) observations were processed 1 per second from 3 ficticious S-band stations located 609.6 m to the North, East, and below the vehicle stop position. The pseudo Doppler data were weighted to an assumed accuracy of 0.1 Hz (10). Inclusion of these pseudo measurements, which were based on known terminal flight conditions, rectified the BET trajectory to eliminate approximate errors of 0.4 mps and 17 m velocity and altitude, respectively, during and post rollout.

II.6 Solution Parameter Selection

During the reconstruction process, in addition to solving for the required spacecraft position, velocity and attitude, inclusion of both dynamic and observational parameters as solution parameters in the estimation was considered. Although many sets of these "extended solve-for parameters" were studied, the final BET included only six: 3 IMU gyro drifts, and 3 IMU accelerometer scale factors. Ideally, if the dynamic and observational instruments were perfect, the BET could be determined via a state-only solution, i.e., position, velocity and attitude at epoch. However, the total weighted root mean square (RMSW) of the tracking residuals for a state-only solution was 2.2. In other words, the overall fit was 2.2 times the assumed 1 σ accuracy of the tracking measurements. Although the state only solution provided reasonable initial and terminal state vectors, additional parameters were included in the solution set to improve the fit to the tracking data and obtain a better entry trajectory.

Many factors influenced the final state vector size selection. First, it was believed that solving for observation related biases would not really improve the estimation accuracy though the data fit might appear to be better in the sense that the mean errors were reduced. It was felt that the best way to account for any potential measurement related error source was to process the data from <u>all</u> available stations, thus, in effect, averaging the errors, if any. Thus, the final BET was determined from the uncorrected tracking data.

Pre-mission simulations had shown that (1) center of gravity position errors many times larger than the uncertainty associated with the advertised c.g. location had a very small effect on the ensuing estimation accuracy, and (2) with the tracking data accuracies available, little if any c.g. location information could be extracted from the data arcs. Hence, center-of-gravity errors were not solved for.

Early studies were done with various combinations of eighteen(18) potential IMU error sources in ENTREE: accelerometer biases (3), accelerometer scale factors (3), gyro drift biases (3), and g-sensitive gyro drift biases (9). Note that since only body to actual platform attitude information is necessary to derive the dynamic data for ENTREE, any initial IMU misalignments resulting from the pre-deorbit star tracker alignment need not be modeled or solved for.

With the previously mentioned 18 instrument parameters included in the solution set, the RMSW was reduced to 1.02. However, removing the 9 g-sensitive terms hardly degraded the fit, i.e., the RMSW increased to 1.05. Also, the dependence on a priori was reduced when g-sensitive terms were eliminated. Furthermore, based on conversations with JSC flight controllers who indicated that a successful pre-deorbit accelerometer calibration had transpired, and based on IMU comparisons (ref. 11) which indicated accelerometer bias errors on the order of only $10 \, \mu \, \mathrm{g}$, the 3 accelerometer bias parameters were also removed from the solution set. This left the 3 accelerometer scale factor errors, and the 3 gyro drift bias errors in the extended solution set of the final BET.

	<u> </u>	,		***************************************	the same of the same		
<u>C</u> :	artesian <u>M</u> 5	<u>0</u>			ENTREE	Coordinate	<u>s</u>
x	-2370-97465 km		${ m v}_{ m R}$		7.4108907	km/sec	
Y	-6113.3	0502 km			${m \gamma}_{ m R}$	-1.1568500	deg
Z	+ 226.7	6197 km		$\psi_{ m R}$		47.213181	deg
x	+5.645572676 km/sec			h _D 182.76046		km	
Ý	-1.8432	30515 km/sec	;		$oldsymbol{arphi}_{\mathbf{D}}$		deg
ż	+5.008001519 km/sec			λ 140.76250 de			deg
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			:				
PARAMETER	UNITS	<u>IMU#1</u>	<u>11</u>	MU#2	IMU#3	AVERA	<u>GE</u>
Yaw, ψ	d e g	+43.566965	+43.	513063	+43.483912	+43.521	313
Pitch, θ	deg	+34.268077	+34.	. 263293	+34.241664	+34.257	678
Roll, φ	deg	-9.0267089	-9.	0373522	-9.0395799	-9.0345	647
		·	L			<u> </u>	

TABLE II-1

Initial state and attitude estimates at epoch

Time*	Site	Event	Range (km)	Azimuth (deg)	Elevation (deg)	X-Angle (deg)	Y-Angle (deg)	-
0	GWMS	AOS	1341		1.7+	-83.6	-70.5	
155	GWMS	max elevation	671		11.2 +	71.9	-51.0	
313	GWMS	LOS	1280		0.3 +	88.1	12.9	
1522	VDBC	AOS	579	284.2	2.7		/A	
1534	VDFC	AOS	549	286.0	3.1			
1535	SNIC	AOS	701	296.1	1.2			
1574	FRCC	AOS	640	280.9	1.7			
1577	VDSC	AOS	427	291.4	5.0			
1583	EAFC	AOS	610	281.4	1.9			
1632	PPTC	AOS	177	200.1	14.9			
1650	PPTC	max elevation	165	184.7	15.6			
1715	PTPC	AOS, max elevation	216	142.9	9.9			
1767	VDBC	max elevation	125	20.1	16.5			
1768	VDFC	max elevation	131	19.6	15.2			
1769	VDSC	max elevation	131	19.9	15.2			
1834	SNIC	max elevation	223	5.6	7.5			
1893	PPTC	LOS	427	127.1	1.8			
1910	PTPC	LOS	457	126.1	1.9			ı
2012	EAFC	max elevation	17	18.3	84.1			
2018	FRCC	max elevation	16	18.3	82.8			
2137	VDBC	LOS	274	82.8	1.0			
2149	VDFC	LOS	274	82.5	-2.2			
2156	VDSC	LOS	274	77.5	-1.1			
2162	SNIC	LOS	262	41.9	1.8			
2281	EAFC	LOS	12	87.8	-0.6			
2305	FRCC	LOS	7	90.7	-1.0	•		

^{*}Time in seconds from epoch $104^{d}17^{h}42^{m}30^{s}$

TABLE II-2

STS-1 C-band and S-band Sequence of Events

Derived for information only

	- 62 		<u> </u>
STATION			
Number	ACRONYM	Start Time (secs.)	Stop Time (secs.)
1	GWMS	50	250
2	PTPC	1714	1779
3	VDBC	1577	1950
4	VDSC	1577	1950
5	VDFC	1577	1950
7	SNIC	1693	1931
9	FRCC	1690	2305
10	EAFC	1688	2274
20	PPTC	1633	1780
1			

TABLE II-3
Tracking Data Arcs Processed for STS-1

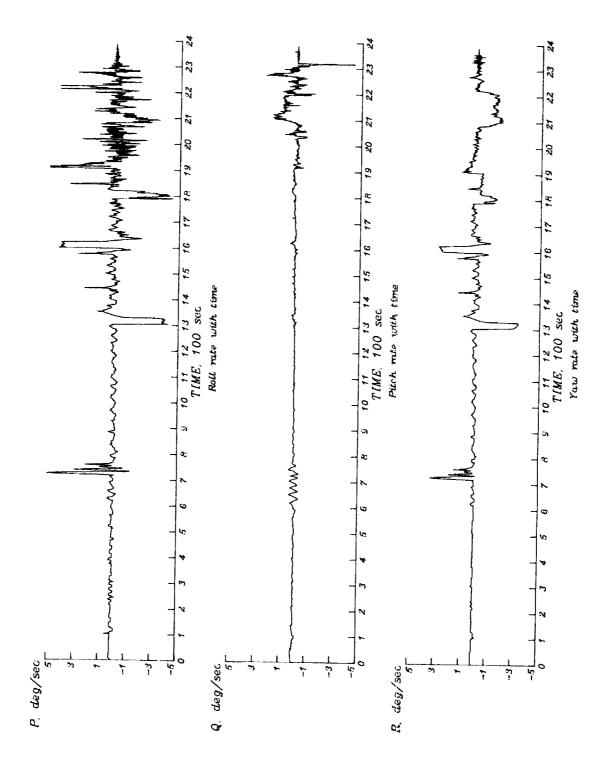


Figure II-1a. STS-1 body axis angular rate history derived from IMU2 measurements

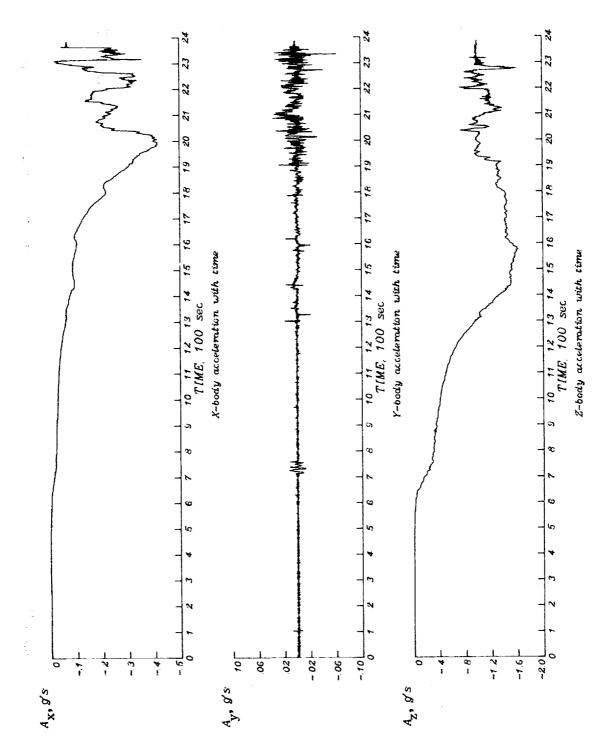


Figure II-1b. STS-1 body axis acceleration history derived from IMU2 measurements

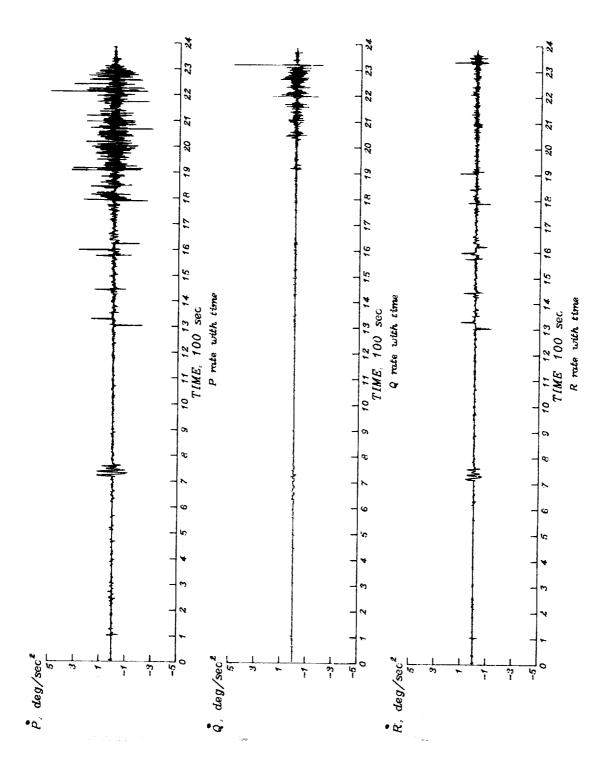


Figure II-1c. STS-1 body axis angular acceleration history derived from IMU2 measurements

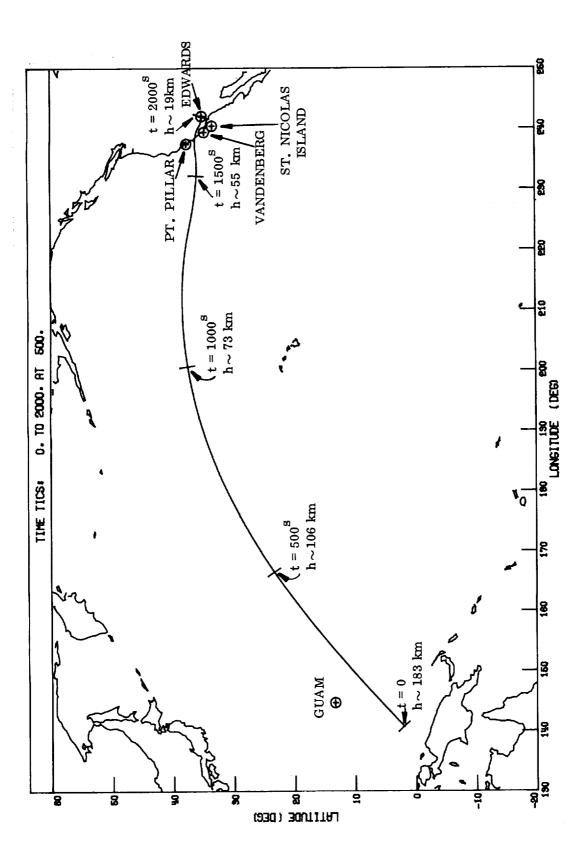
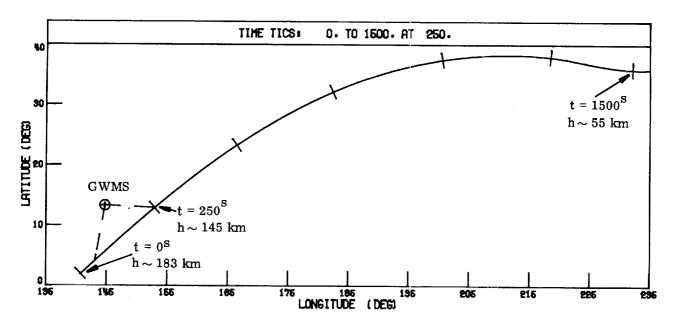
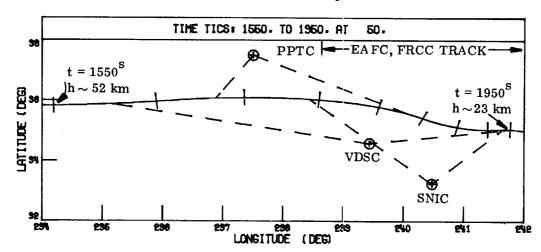


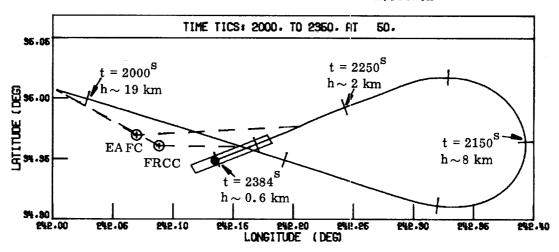
Figure II-2. STS-1 entry ground track



(a) Entry to C-Band Acquisition



(b) C-band Acquisition to Final Approach



(c) Final Approach and Landing

Figure II-3. Detailed tracking coverage geometry for STS-1

III. Results

Though most of the results presented are based on IMU2 processing, inertial trajectory estimates were obtained solving for state, attitude, and the 6 extended solution parameters previously described for all of the IMUs. Table III-1 shows the state vector solutions at the epoch time as well as an accuracy assessment. As can be seen, all 3 solutions compare favorably. The accuracy assessment was based on an ensemble of entry estimates and reflects a realistic judgment as to the accuracy with which the entry state is known. Formal statistics (1 o) as generated within ENTREE are generally several orders of magnitude smaller which is felt to be somewhat unrealistic. The state solutions obtained represent an "information-only" solution-that is, the results were completely determined from the tracking data content. The relatively large diagonal a priori covariance matrix used for the batch filter had virtually no effect on the solution. The data fits based on each of the three IMUs were essentially the same. The (RMSW) fits were 1.14, 1.15, and 1.17 for IMUs 1, 2 and 3, respectively. This result shows that the data were fit to nearly 10 in each case. This includes all the tracking data as well as the pseudo altimeter and pseudo Doppler data.

Plots of selected planet relative and inertial parameters from the BET vs. time are shown in Figures III-1a through III-1e, and vs. altitude in Figures III-2a through III-2e. These plots are based on the IMU2 estimate. The position and velocity are defined by: h, the geodetic altitude; Φ_D , the geodetic latitude; λ , the longitude; V_R , the planet relative velocity magnitude; γ_R , the planet relative flight path angle; and ψ_R , the velocity vector heading relative to true North. Attitude angles, σ_R , β_R , and α_R are the planet relative roll, sideslip, and angle of attack, respectively. The Euler angles, ψ , θ , and φ , are ordered yaw, pitch, and roll and define the attitude of the vehicle relative to a North-East-local vertical frame. The inertial velocity components relative to the same frame are given by u, v, and w, which are the North, East, and (positive) down components, respectively. Figures A-2 and A-3 in Appendix A provide a graphical depiction of the attitude angles, position, and velocity components described above.

The estimate of the Shuttle position and velocity during runway rollout is depicted in Figure III-3. Here the X-coordinate is measured along Runway 23 from the surveyed runway threshold, positive in the direction of the Shuttle motion. Y is perpendicular to X in the horizontal plane, positive right as seen by the landing Shuttle. The altitude components are depicted in the bottom plots of Figure III-3. Naturally, the actual terminal Shuttle velocities are zero post-stop, and the altitude of the c.g. above the runway during rollout and under static conditions is approximately 4.8768 m (which is shown as a dashed line starting from nosewheel touchdown at t = 2317.0). Also shown as dashed lines starting at t = 2368.0 are the surveyed coordinate stop points (corrected for main wheel/center-of-gravity displacement) as measured following the flight: X = 4588 m; Y = -4.4 m (F.O. E.D. Sketch No. 5120, Dryden Flight Research Center).

The estimated stop position components are given in Table III-2. The estimated position at the stop time of 2368.0 was 15.2 in front of the surveyed stop point, 1.2 m to the right, and 0.4 m high. The velocity difference estimates were all less than 0.03 mps. The exceptional terminal altitude and velocity estimates are attributed to the processing of the pseudo altimeter and Doppler data (see Section II). The terminal state vector solutions for each of the 3 IMU-generated BETs are tabulated in Table III-2.

Figures III-4a through III-4j are the observation residual plots of all the measurement data processed in the generation of the BET associated with IMU2. Each page illustrates the data from a particular tracking station. The first plot shows the Guam S-band residuals. The next eight plots are the C-band residuals for PTPC, PPTC, VDBC, VDFC, VDSC, SNIC, FRCC, and EAFC, respectively. The radar types are noted thereon for each C-band station. The last figure contains residual plots for the three pseudo Doppler stations and altimeter observations. The left column on each figure shows the actual measurement residuals, O-C. The right column illustrates the weighted residuals, that is, the quotient of the actual residuals and the measurement weights. The computed means and standard deviations for each residual plot

are annotated thereon. Roundoff results in some of these quantities being displayed as absolute zeros. A weighted residual statistics summary is presented in Table III-3.

Generally speaking, the overall data fit is excellent. As can be seen from the residual plots, some slight signature trends remain, probably due to unmodeled error sources associated with the trackers and the IMUs. Nevertheless, with the exception of the range measurements from the PTPC station at the Point Pillar complex, all station residual statistics show means and standard deviations of less than 20, with most having a better than 10 fit.

Table III-3 also indicates that the residual spread and data fit are generally independent of the dynamic data source. Most stations had either an all positive or all negative mean bias. Some were quite consistent in magnitude. Note too that the pseudo altimeter had similar means and sigmas independent of the IMU used to generate the BET, whereas the pseudo Doppler data residual statistics for each IMU bore little resemblance to one another.

Table III-4 lists the IMU systematic error solutions associated with each of the inertial platforms. IMU1 yielded the smallest estimated accelerometer scale factor solutions. IMU3 yielded the smallest gyro drift bias estimates but the largest accelerometer scale factor error solutions. In general, the scale factor solutions showed the most consistency as the extended solve-for parameter set was varied. Indeed, the formal uncertainties associated with the scale factor solutions with all IMU modeled errors considered were generally on the order of 50 - 100 ppm, indicative of a reasonably accurate estimate (the IMU specification accuracy as discussed in Appendix A is 100 ppm). On the other hand, the gyro drift bias solutions were very sensitive to nearly any change in the solution parameter set. Information only (i.e., no a priori uncertainties) were 20 to 50 times larger than the gyro drift specification accuracies. There was insufficient information in the tracking data to obtain reliably accurate estimates of these parameters.

Final atmosphere and atmosphere relative parameters are presented as Figs. III-5a through III-5i. The atmosphere utilized was the Langley Atmospheric Information Retrieval file (LAIRS, USE8 dated October, 1981).

Figs. III-5a through III-5d are plots of the temperature, pressure, density, and atmospheric wind profiles from this file. The winds are measured winds and are in general agreement with in situ determined winds as reported in Ref. 14. Also, additional measurements made at two California sites, Tehachapi and Wheeler Ridge, yielded similar wind profiles. The large planet relative side-slip angle excursions (~ 3 deg) shown in Figure III-1c are due almost entirely to neglecting these winds in the attitude computation.

Atmospheric relative velocity, flight path angle, and heading angle are shown in Fig. III-5e versus time. Air relative angle-of-attack and sideslip angle versus time are shown as Fig. III-5f. Here it is shown that the air relative side-slip is within \pm 1.0 degree after inclusion of the atmospheric winds. This result is more reasonable and as anticipated based on STS-1 measured spacecraft rudder deflections and lateral accelerations. Dynamic pressure and Mach No. time histories are shown as Figs. III-5g. Flight derived lift and drag coefficients as well as the L/D ratio are shown as Fig. III-5h. Also shown thereon are the flight derived side force coefficient versus time. Finally, flight derived pitching moment $(C_{\underline{\mathbf{m}}})$, yawing moment (C_n) , and rolling moment (C_n) coefficients are presented in Fig. III-5i. These air relative parameters are utilized by ACME investigators for post-flight assessments of the aerodynamic performance by comparing with preflight aerodynamic data base values. It is observed that the derived aerodynamic parameters do not stabilize until $t \sim 700$ sec due to the low signal to noise ratio of the measured rates and accelerations in the low q environment.

Parameter	Units	IMU1	IMU2	IMU3	1 o Accuracy Assessment
$v_{ m R}$	km/sec	7.41103	7.41108	7.41107	1. E-4
$\gamma_{ m R}$	deg	-1.1475205	-1.1555853	-1.1530949	4. E-3
$\psi_{ m R}$	deg	47.216922	47.218146	47.214843	.01
r R h	km	182.398	182.994	182.823	0.250
$oldsymbol{arphi}_{ ext{D}}$	deg	1.9323945	1.9339547	1.9333110	1. E-3
λ	deg	140.76175	140.76133	140.76203	2. E-3
$\sigma_{ m R}$	deg	-7.4015553	-7.4168490	-7.3679519	
$oldsymbol{eta}_{ m R}$	deg	-1.4950769	-1.5257547	-1.5227536	
$\alpha_{ m R}$	deg	35.548636	35.592728	35.585570	
κ ψ	deg	43.481720	43.494063	43.523341	.08
θ	deg	34.255158	34.293573	34.291767	.02
$oldsymbol{arphi}$	deg	-8.9983262	-9.0219117	-8.9621916	. 05
u	km/sec	5.0327	5.0327	5.0330	
v	km/sec	5.4381	5.4382	5.4379	
w	km/sec	0.1484	0.1495	0.1491	

TABLE III-1
STS-1 BET results at epoch using the tri-redundant IMUs

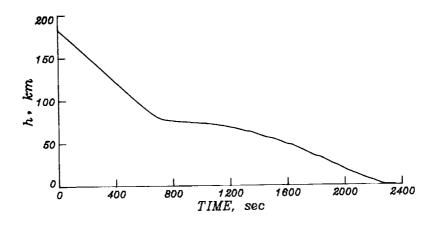
STATE VECTOR COMPONENT (RUNWAY COORDINATES)	IMU1	IMU2	IMU3	MEASURED END CONDITIONS
x (km)	4.6229	4.6037	4.6000	4.5884
y (km)	0.0037	-0.0032	-0.0064	-0.0044
h (km)	0.0051	0.0052	0.0051	0.0049
x (mps)	0.021	0.006	0.021	0.0
y (mps)	-0.024	-0.018	-0.021	0.0
h (mps)	-0.018	-0.027	-0.027	0.0

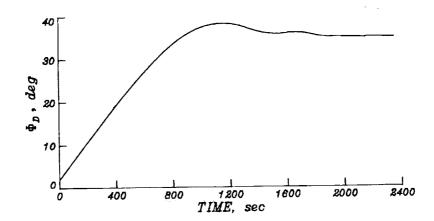
		Weighted Mean, $\mu_{ m W}$			Weighted Standard Deviation, $\sigma_{ m w}$		
Station	Data Type	IMU1	IMU2	IMU3	IMU1	IMU2	IMU3
GWMS	Range	.06	04	.04	.61	.67	.63
	Doppler	.22	33	15	1.00	1.20	1.00
	X-Angle	-1.20	1.21	.50	.70	.70	.57
	Y-Angle	1.80	.95	.96	.63	.52	.52
PTPC	Range	-1.94	-1.10	-1.58	.49	.31	.44
	Azimuth	.62	.61	.68	.41	.41	.41
	Elevation	.80	.94	.82	.28	.30	.29
VDBC	Range	-1.01	67	54	.67	.94	. 96
	Azimuth	22	25	33	.47	.47	. 54
	Elevation	.26	.44	.32	.31	.31	. 32
VDFC	Range	-1.37	-1.01	89	1.12	1.50	1.51
	Azimuth	06	09	17	.86	.88	.95
	Elevation	.23	.37	.25	.71	.78	.76
VDSC	Range	16	.17	.28	.65	1.00	1.03
	Azimuth	23	26	34	.85	.86	.95
	Elevation	14	0.0	13	.74	.82	.77
SNIC	Range	.57	.53	.50	.90	.99	.97
	Azimuth	-1.69	-1.68	-1.66	.73	.72	.74
	Elevation	07	01	03	.89	.90	.89
FRCC	Range	63	90	-1.04	1.17	1.13	1.12
	Azimuth	. 15	.32	-27	.94	1.15	1.16
	Elevation	. 76	.86	.80	.85	.86	.80
EAFC	Range	04	24	36	1.26	1.11	1.12
	Azimuth	05	.11	.08	1.08	1.22	1.23
	Elevation	.62	.75	.77	1.04	1.05	1.19
PPTC	Range	-3.05	-2.16	-2.51	.63	.51	.56
	Azimuth	.04	.07	.27	.27	.32	.38
	Elevation	70	52	79	.53	.53	.46
Pseudo	Altimeter	37	50	38	. 14	.21	.21
Pseudo	Doppler#1	.03	07	.18	.58	1.25	.74
	Doppler#2	03	.56	.83	.95	1.09	1.31
	Doppler#3	1.01	2.15	1.58	.62	.90	.61

TABLE III-3
Weighted residual statistics summary for STS-1

X-gyro drift Y-gyro drift	IMU1 -0.146 deg/hr -0.051 deg/hr		IMU3 +0.050 deg/hr
Z-gyro drift X-accelerometer	-0.012 deg/hr	+0.110 deg/hr +0.096 deg/hr 56 ppm	-0.021 deg/hr +0.020 deg/hr
scale factor Y-accelerometer scale factor	-16 ppm	190 ppm	193 ppm 162 ppm
Z-accelerometer scale factor	13 ppm	-64 ppm	-144 ppm

TABLE III-4
IMU parameter estimates for STS-1





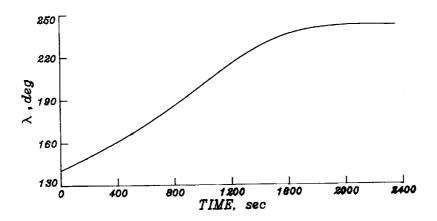
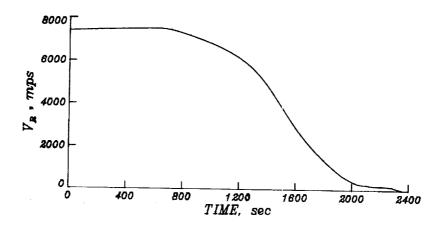
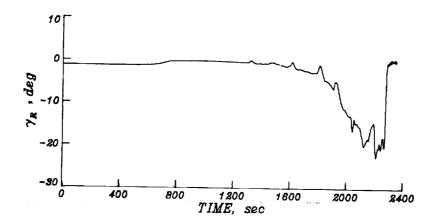


Figure III-1a. STS-1 BET altitude, latitude, and longitude versus time from epoch





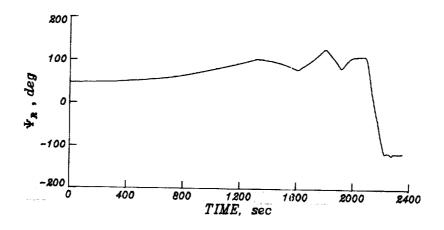
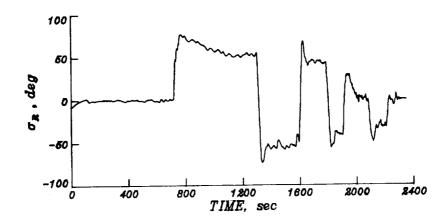
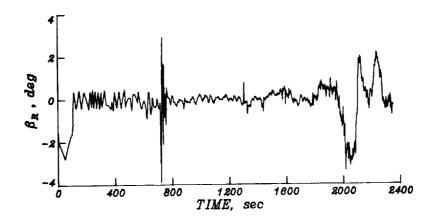


Figure III-1b. STS-1 BET planet relative velocity, flight path angle, and heading angle versus time from epoch





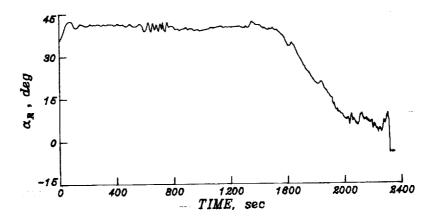
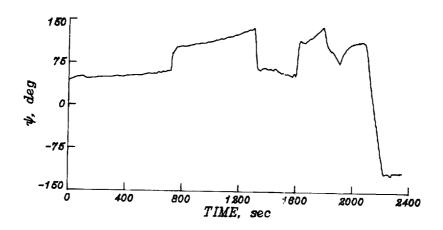
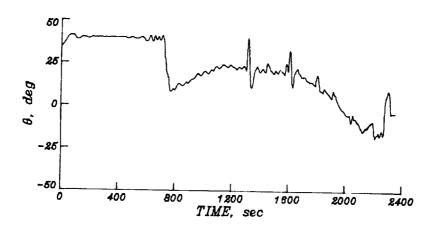


Figure III-1c. STS-1 BET attitude angles with respect to $V_{\mbox{\scriptsize R}}$ versus time from epoch





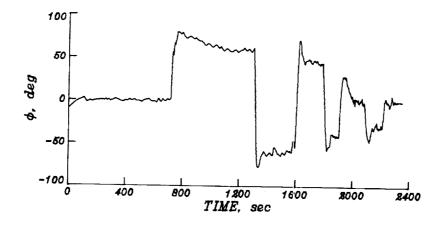
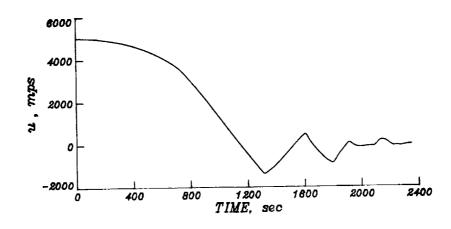
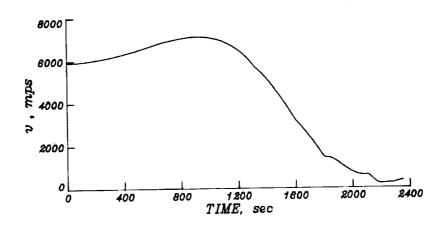


Figure III-1d. STS-1 BET Euler angles versus time from epoch





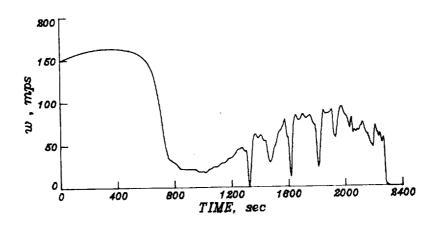
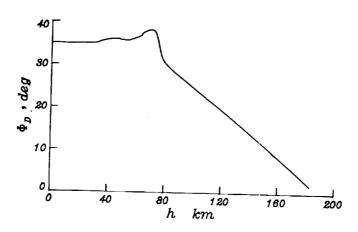


Figure III-1e. STS-1 BET inertial velocity components versus time from epoch



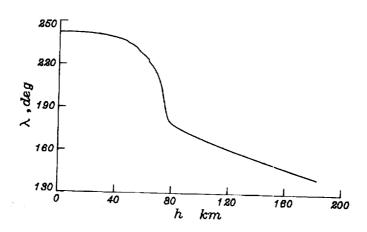
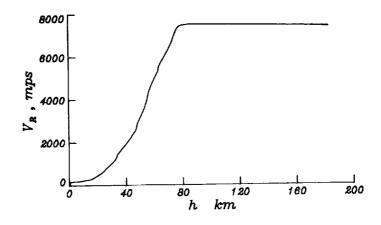
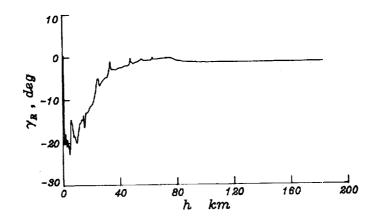


Figure III-2a. STS-1 BET latitude and longitude versus altitude





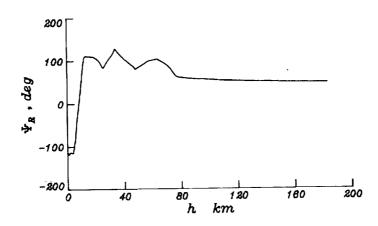
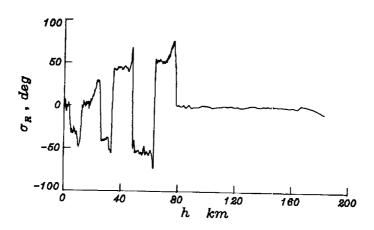
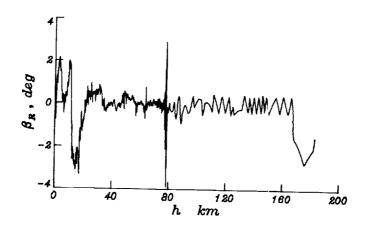


Figure III-2b. STS-1 BET planet relative velocity, flight path angle, and heading angle versus altitude





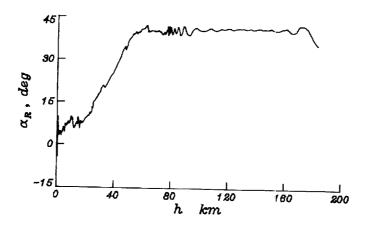
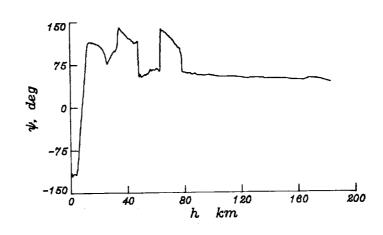
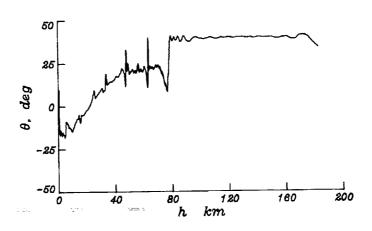


Figure III-2c. STS-1 BET attitude angles with respect to $\mathbf{V}_{\mathbf{R}}$ versus altitude





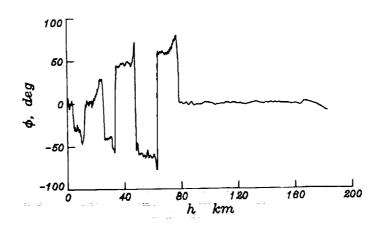
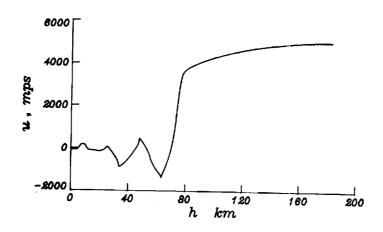
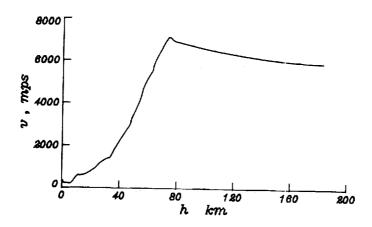


Figure III-2d. STS-1 BET Euler angles versus altitude





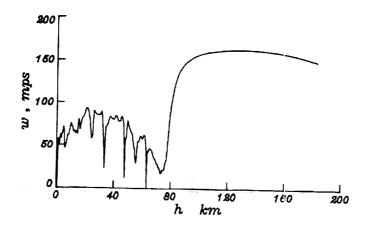


Figure III-2e. STS-1 BET inertial velocity components versus altitude

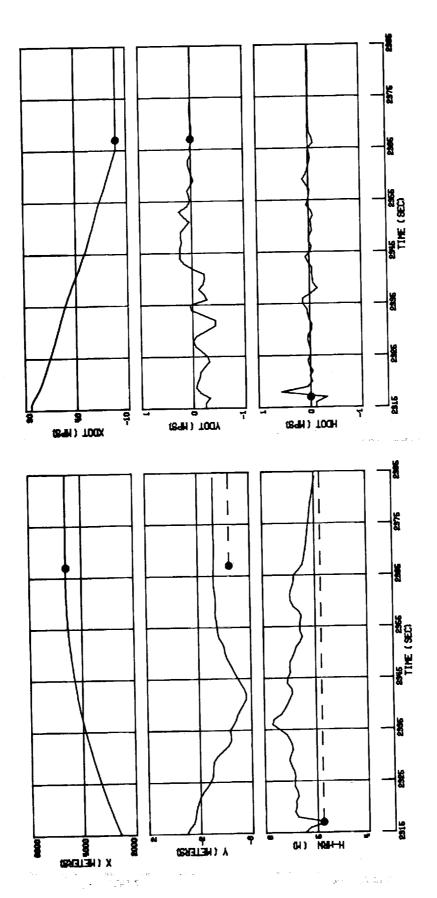


Figure III-3. STS-1 BET rollout position and velocity in runway coordinates



WEIGHTED RESIDUALS

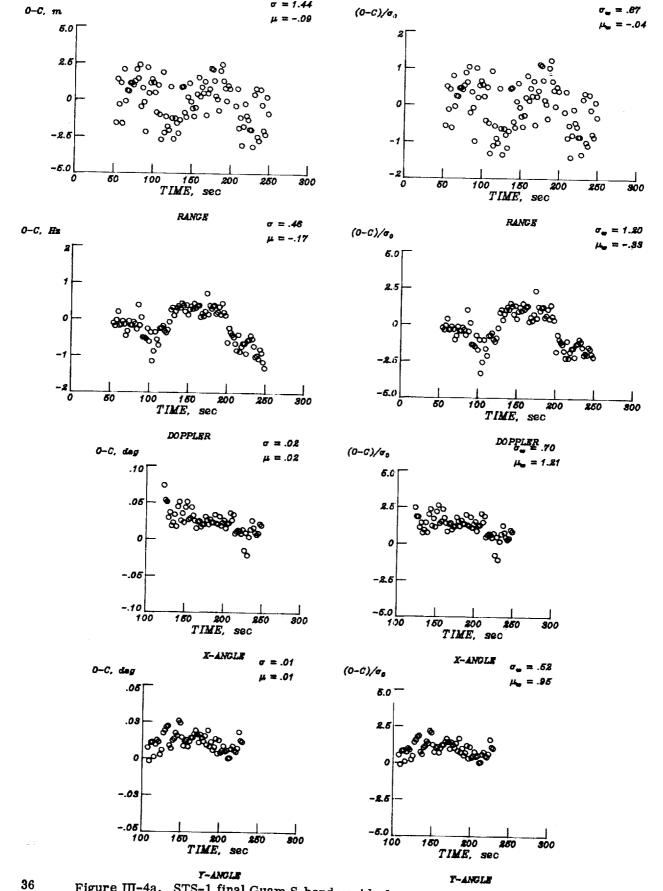


Figure III-4a. STS-1 final Guam S-band residuals versus time from epoch

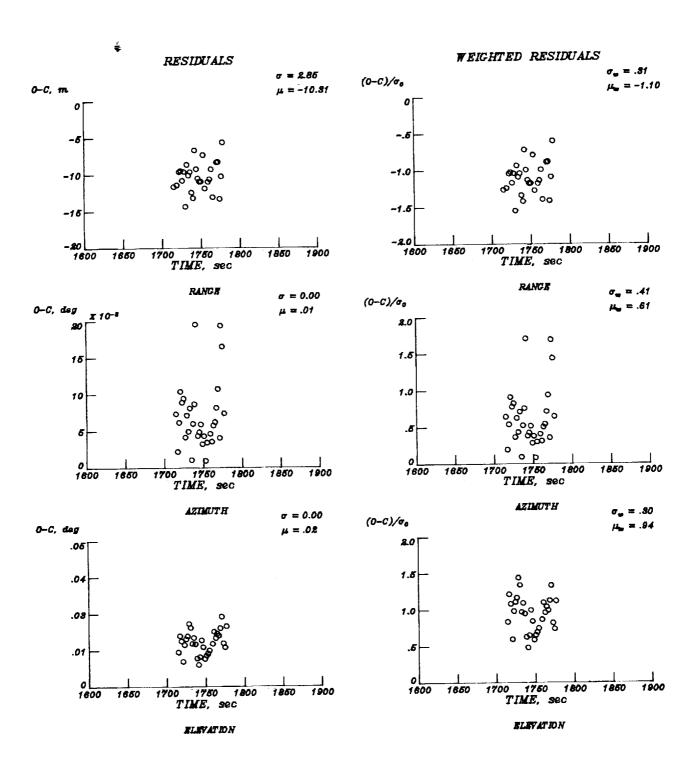


Figure III-4b. STS-1 final Pt. Pillar (PTPC/FPQ-6) residuals versus time from epoch

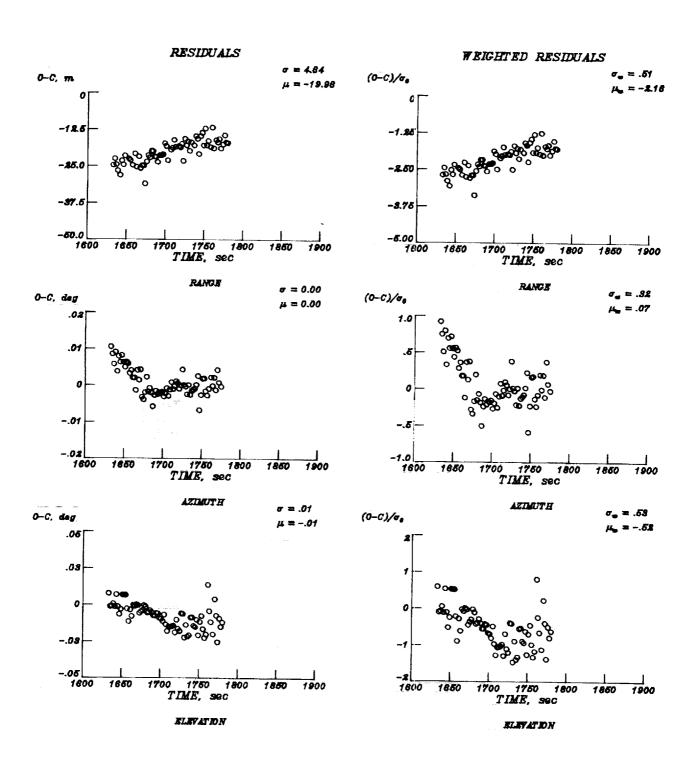


Figure III-4c. STS-1 final Pt. Pillar (PPTC/FPS-16) residuals versus time from epoch

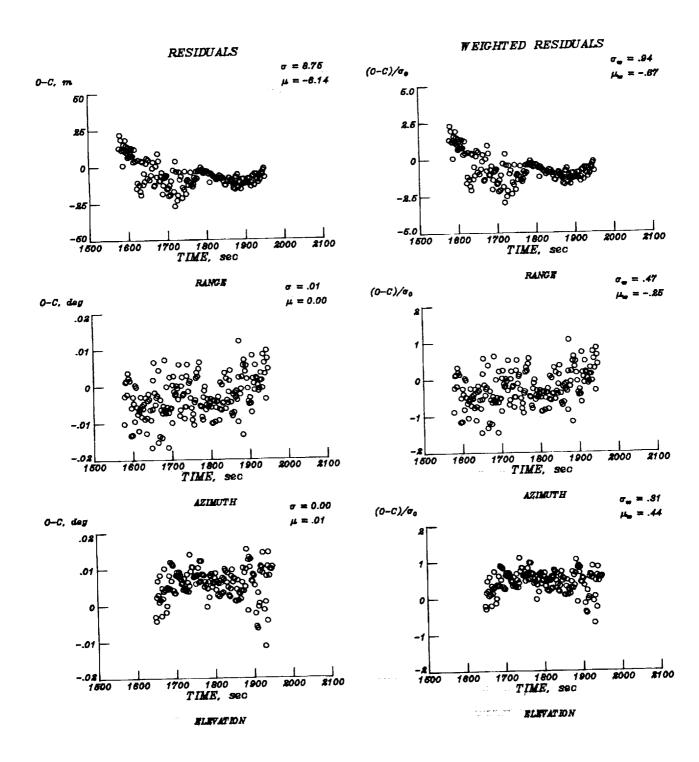


Figure III-4d. STS-1 final Vandenberg (VDBC/TPQ-18) residuals versus time from epoch

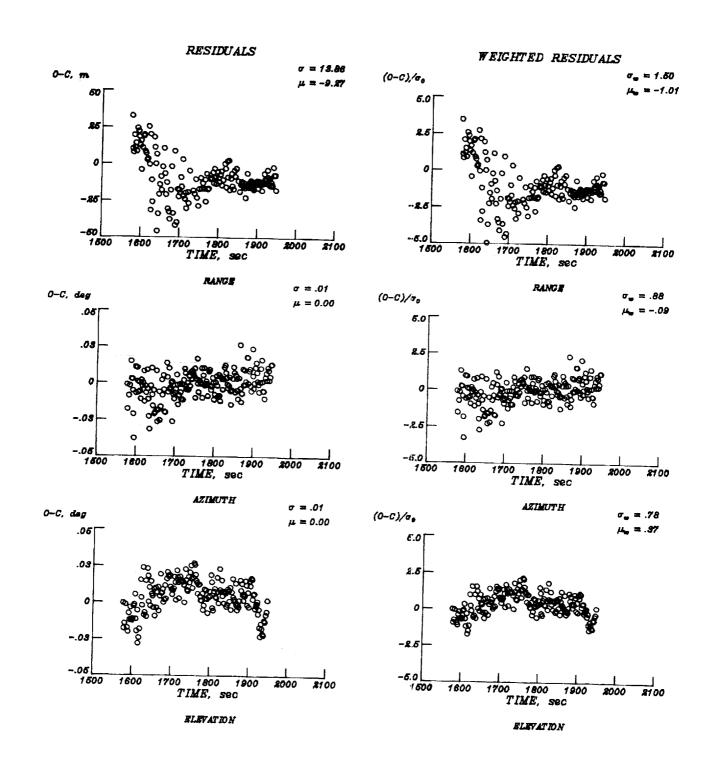


Figure III-4e. STS-1 final Vandenberg (VDFC/FPS-16) residuals versus time from epoch

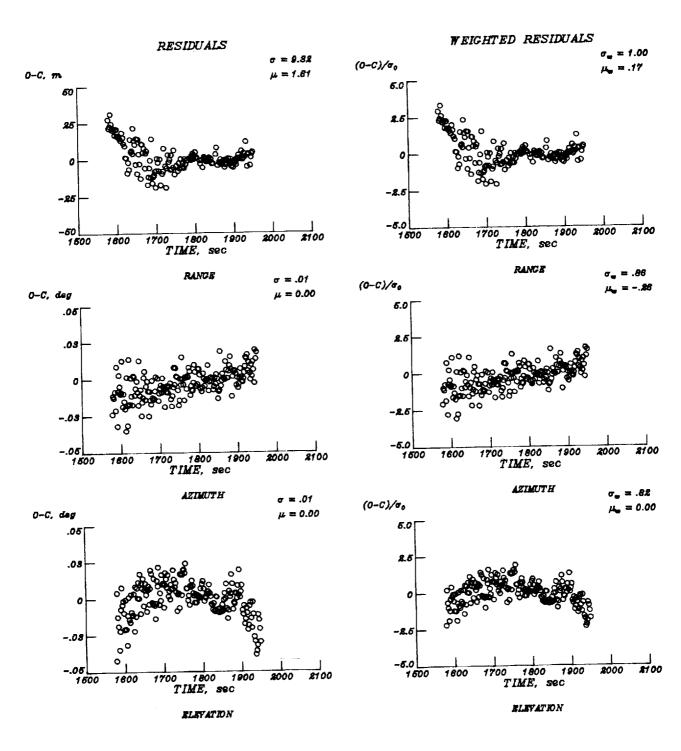


Figure III-4f. STS-1 final Vandenberg (VDSC/FPS-16) residuals versus time from epoch

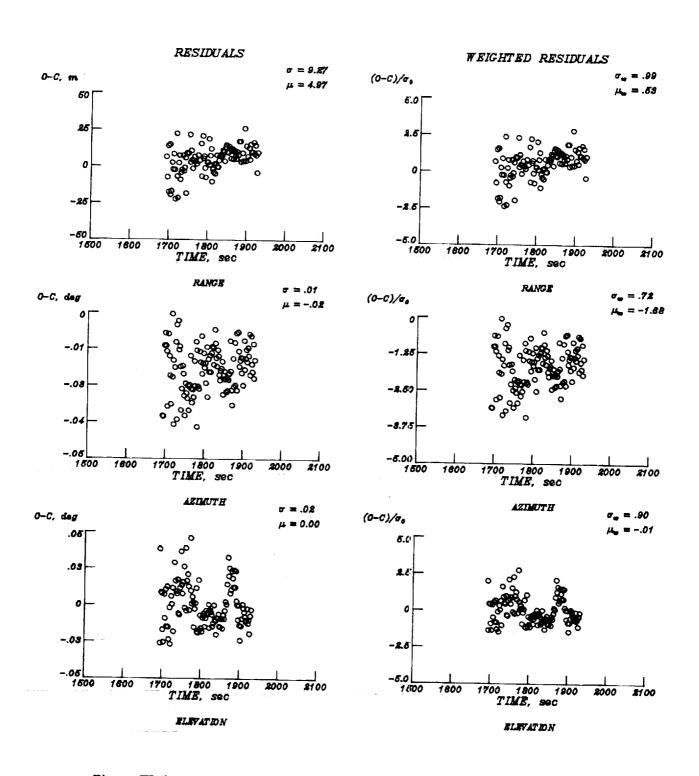


Figure III-4g. STS-1 final St. Nicolas Island (SNIC/FPS-16) residuals versus time from epoch

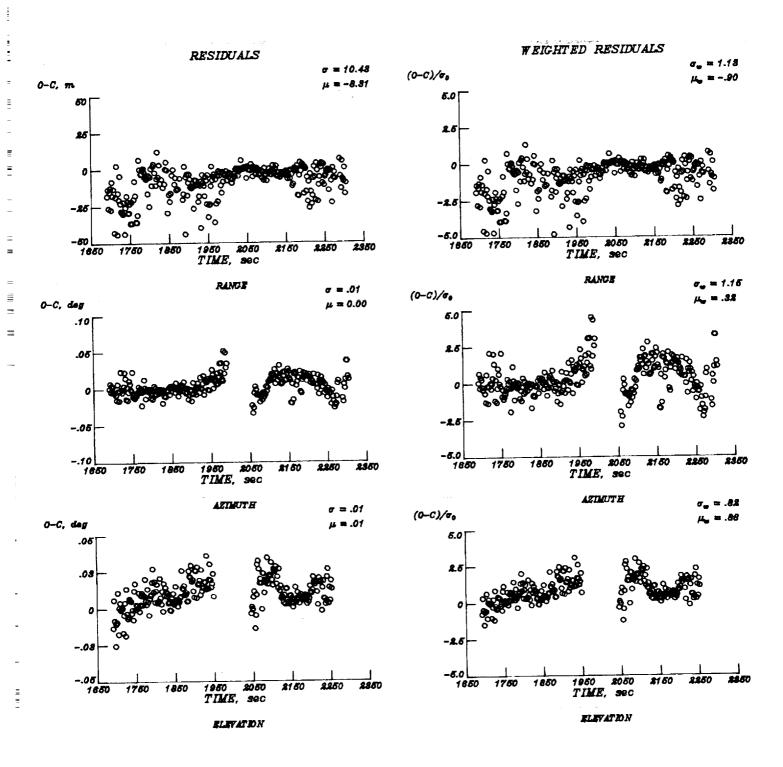


Figure III-4h. STS-1 final NASA Dryden (FRCC/FPS-16) residuals versus time from epoch

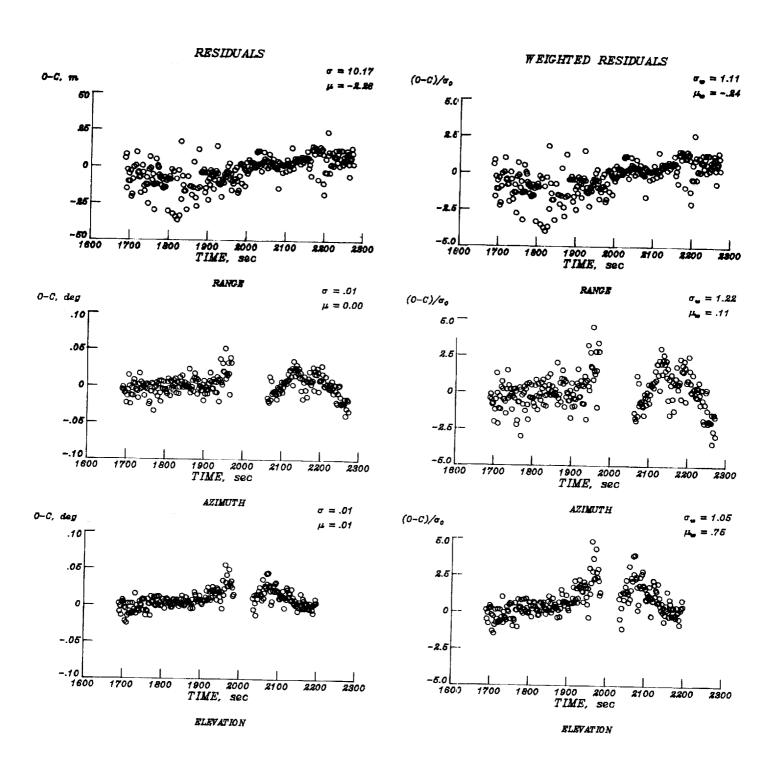
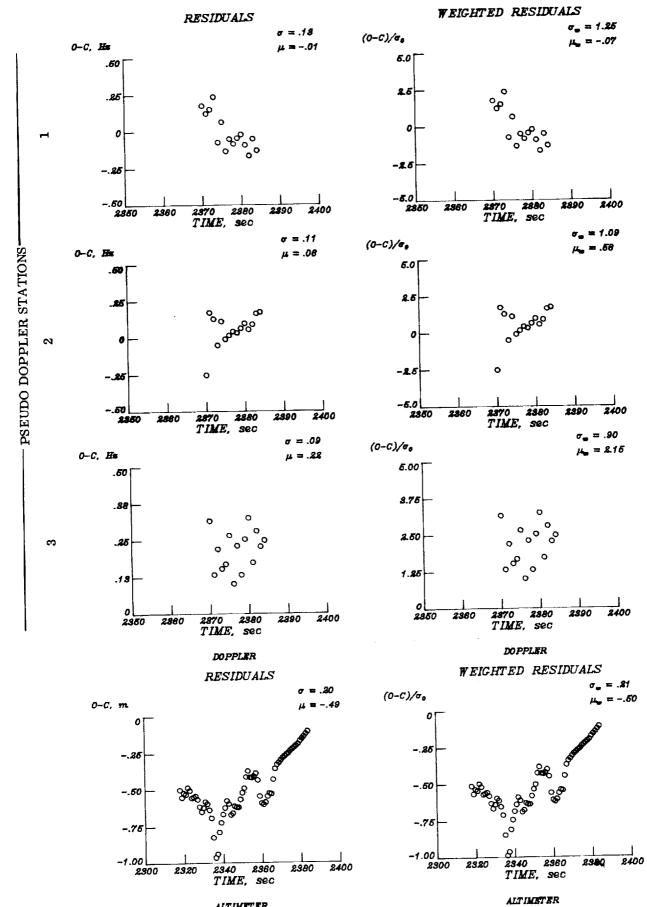


Figure III-4i. STS-1 final Edwards (EAFC/FPS-16) residuals versus time from epoch



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Figure III-4j. STS-1 final residuals for pseudo observables (Doppler and altimeter) versus time from epoch

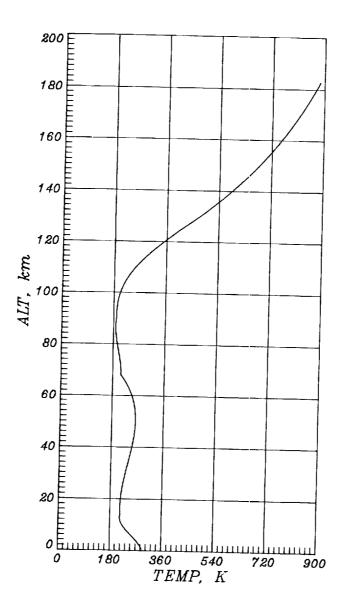
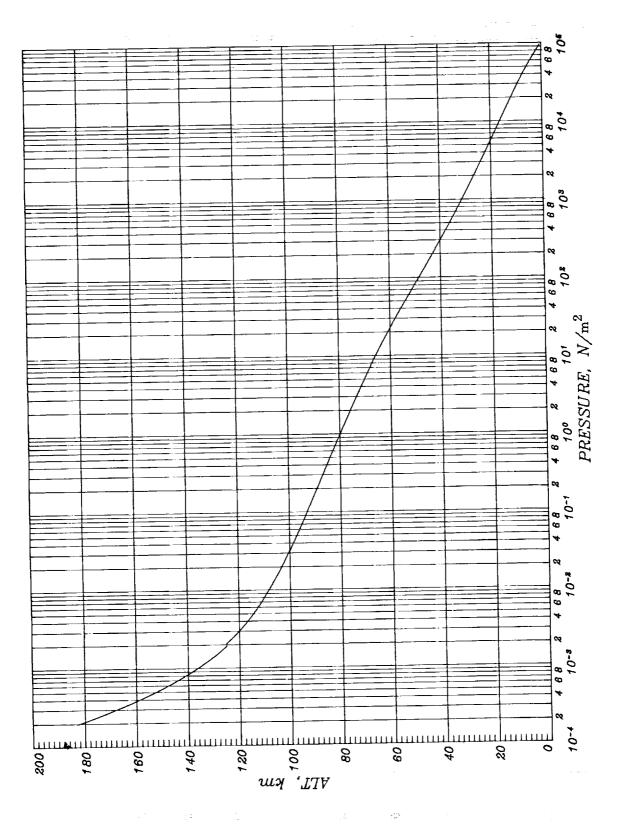


Figure III-5a. STS-1 temperature profile



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Figure III-5b. STS-1 pressure profile

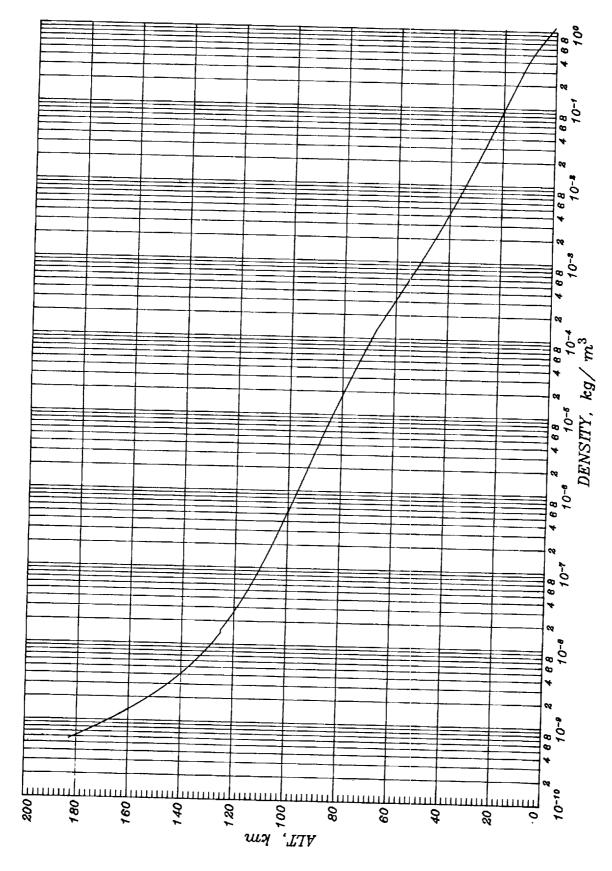


Figure III-5c. STS-1 density profile

- Southward

 $\stackrel{\vee}{\vartriangle}$ - Upward

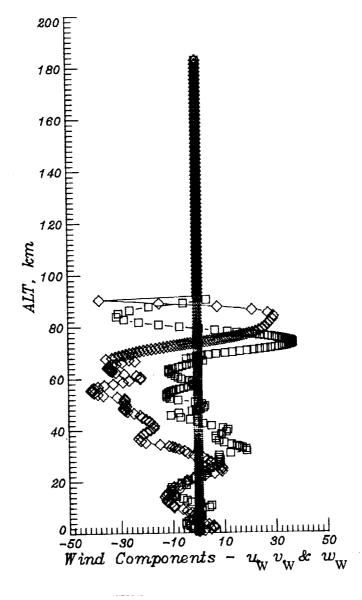
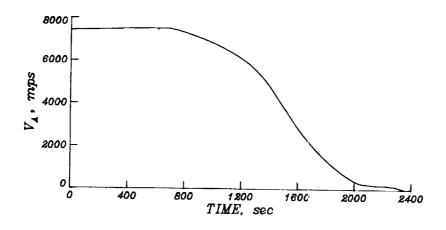
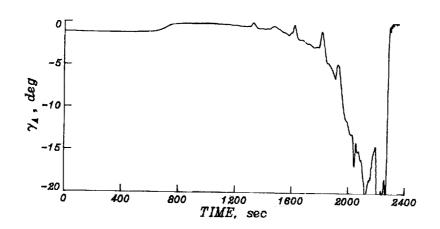


Figure III-5d. STS-1 atmospheric wind components versus altitude





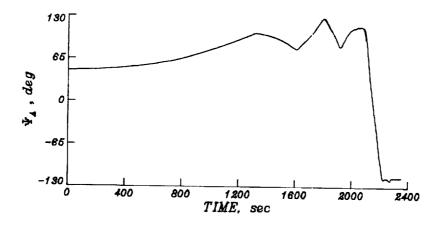
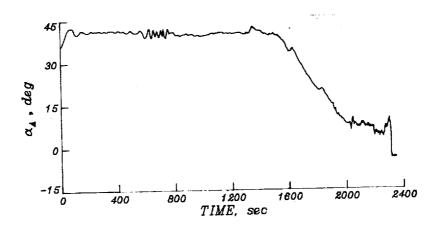


Figure III-5e. STS-1 BET atmospheric relative velocity, flight path angle, and heading angle versus time from epoch



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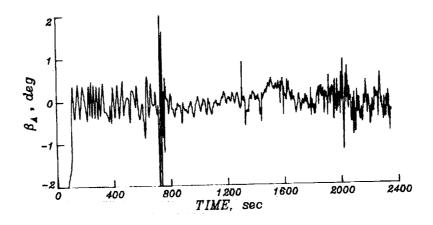
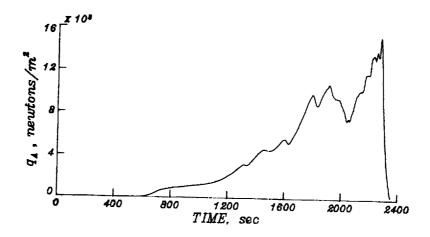


Figure III-5f. STS-1 BET atmospheric relative angle-of-attack and side-slip angle versus time from epoch



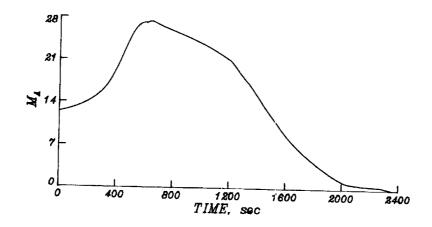


Figure III-5g. STS-1 BET dynamic pressure and Mach No. versus time from epoch

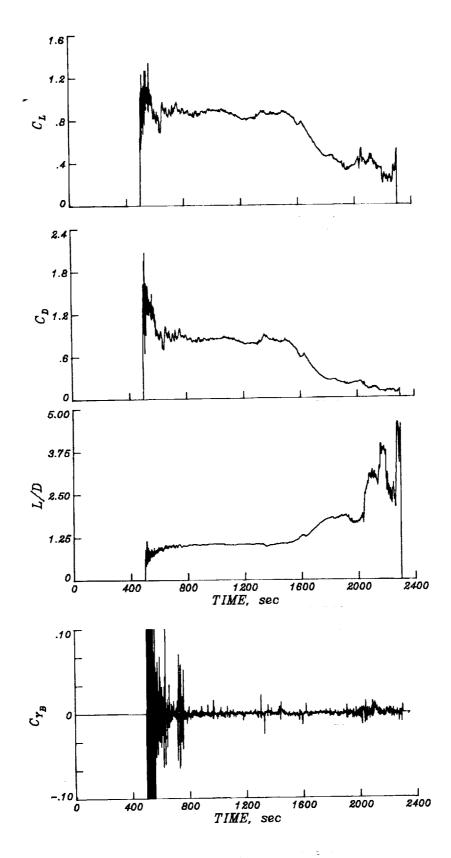
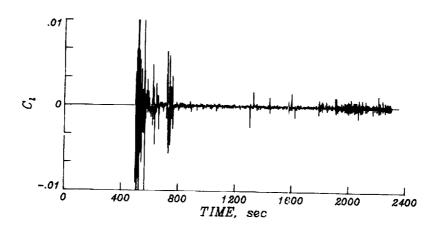
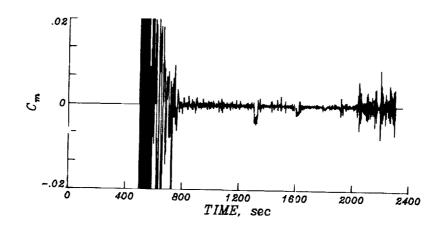


Figure III-5h. STS-1 BET flight derived aerodynamic performance coefficients versus time from epoch





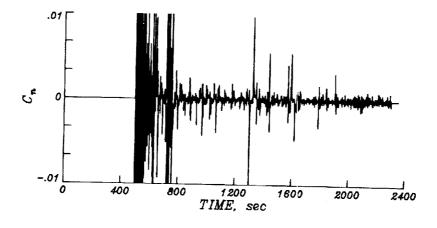


Figure III-5i. STS-1 BET flight derived moment coefficients versus time from epoch

IV. Summary

The STS-1 Space Shuttle re-entry trajectory has been successfully reconstructed using a weighted least squares batch filter algorithm. Dynamic data derived from the onboard Inertial Measurement Units (IMU) were used to propagate the state vector. Tracking data from eight California based C-band radar stations and the S-band tracking station at Guam were processed in the BET generation. The Guam data in particular were instrumental in anchoring the position and velocity estimates at ~ 183 km altitude. Likewise, the pseudo altimeter and pseudo Doppler data processed during and post rollout significantly improved the estimation accuracy during the terminal portion of the trajectory.

Examination of the BET output demonstrated that the STS-1 re-entry trajectory was quite similar to the pre-mission nominal flight profile. IMU to IMU comparisons, and IMU systematic error solutions indicated nominal platform performance. Processing selected data from all available tracking stations resulted in an approximate 1 σ overall RMSW fit for each of the 3 IMU determined BETs, thus generating confidence in the accuracy of the estimation. In summary, the important in-plane entry parameters (V, γ , h) were determinable (1 σ) to 0.01 mps, 0.004 deg, and 250 m, respectively. Spacecraft attitude accuracies at epoch of 0.08 deg, 0.02 deg, and 0.05 deg are estimated for the inertial Euler angles ψ , θ , and φ , respectively.

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APPENDIX A

Discussion of the BET Generation Process

This Appendix is presented to provide for a general discussion of the data pre-processing required to enable the generation of a BET. Tracking data and dynamic data pre-processing requirements are addressed. A software overview is shown as Figure A-1. Table A-1 presents a list of acronyms for the software referred to herein. The overall ENTREE software system is summarized to show the data flow between receipt of data to generation of the final BET for the user community. Shuttle specific preprocessing requirements developed by AMA, Inc. under the subject contract to satisfy the ENTREE software are addressed. Pre-processing peculiar to the STS-1 flight are addressed in the text of the report. The output product from ENTREE is an inertial BET. The final product, as shown in Figure A-1, combines the ENTREE output with the best available atmosphere information (including winds). The atmosphere is provided by LaRC, with contractual help from the Space Systems Division of Computer Sciences Corporation, in the form of a Langley Atmospheric Information Retrieval System file. This atmosphere is developed from a combination of measurements and models as discussed in Ref. 5 and is translated in time and space to conform to the ground track and vertical profile of the BET. These data permit the computation of the required air relative parameters and, along with the measured accelerations, rates, and Shuttle mass properties, enables computation of flight derived aerodynamic force and moment coefficients.

A.1 ENTREE Software Description

The major estimation software, ENTREE (Ref. 8), was initially developed by the Computer Sciences Corporation under Contract NAS1-15663 for Larc. AMA, under the subject contract, has had considerable involvement in checkout and modifications/additions to this software. The software requires body-fixed (strapped-down) dynamic measurements for use in the six-degrees-of-freedom equations of motion for spacecraft prediction. Body axes conventions for the angular rates and linear accelerations conform to the usual aerodynamicists' definitions as depicted in Fig. A-2. A fourth order fixed step size Runge-Kutta integration algorithm is utilized. Definition of the variables utilized in the software can best be described by referring to

Figures A-3 a,b. Figure A-3a shows the planet model, position, and velocity parameters. The altitude corresponds to an altitude above an oblate spheroid which conforms to the Fischer model. Longitude, λ , is defined as positive Eastward from Greenwich. Inertial velocity components, u, v, and w, are geocentrically oriented to local North, East, and vertical (downward). The velocity heading angle, Ψ , is defined positive clockwise from North and the flight path angle, γ , is defined positive above the geocentric horizon. Spacecraft attitude parameters are shown as Figure A-3b. The velocity relative parameters are: σ , roll with respect to the velocity vector (positive right wing down); β , side-slip angle (positive nose left); and α , the angle-of-attack positive (nose up). Geocentrically oriented Euler angles are also utilized. The sequence is yaw, ψ , pitch, θ , and roll , φ , and orients the vehicle body axes to the local vertical system. Though not shown in the schematic, a software utility, TRANS, has been developed to compute the required ENTREE state variables from the initial state estimate in the inertial 1950.0 Mean Equator and Equinox (M50) system. Also, based on this M50 state and interpolated IMU measurements at epoch, initial attitude estimates are generated therein.

Batch weighted least squares and sequential Kalman filtering algorithms can be selected on option for the estimator. A weighted least squares batch filter is employed to obtain the best estimate based on the observations processed.

Potential observables which can be selected on option (see Refs. 8, 13, and 15) are:

C-band Range, Azimuth, and Elevation
S-band Range, Doppler, X-angle, and Y-angle
Tacan Range, and Bearing angle
Altimeter
Microwave Scanning Beam Range, Azimuth, and Wedge angle.

Of particular importance for Shuttle are the C-and S-band observables. Tacan accuracy, relative to these radars, and MSBLS timing staleness in the down-list do not warrant use of these observables.

A.2 Tracking data pre-processing

Two software utilities have been developed, PREOBS and OBEDIT, to employ the external observations in ENTREE (see Figure A-1). PREOBS reads the tracking data files from several sources, i.e., GSFC, JSC, and recorded OI data. These data are transmitted to LaRC and converted by the Orbiter Experiments (OEX) Data Manager to be compatible with the LaRC computer system.

The GSFC input as shown represents the primary source for high speed S-band tracking prior to the entry interface. These GSFC data were obtained through special arrangements with LaRC. These data are playback data. The necessity for the high rate data is as follows. The ENTREE program uses a modified formulation of an instantaneous range rate computation for Doppler frequency shift. Since the S-band Doppler measurement is accumulated cycles over a time interval (count time) and must be converted to frequency, an instantaneous formulation requires a very small count time for accuracy. Prior to entry interface the real time data are transmitted to the JSC at a 10 second rate which is unacceptably large in terms of count time.

Range, Doppler, X-angle, and Y-angle measurements are all included on the GSFC file. Low rate S-band data are also contained on the JSC tracking file prior to the entry interface. Use is made of these data to check on time tags for the high rate (playback) data from GSFC. The principal measurements taken from the JSC tracking data file are the C-band tracking data between end of communications blackout and touchdown. The C-band measurements (Range, Azimuth, Elevation) provided on the JSC file are in units compatible with ENTREE and require no units conversions or calibrations. S-band X and Y-angle measurements obtained from the JSC file are in units compatible with ENTREE. Those obtained from the GSFC file are converted from angle units (where one unit is a specified number of degrees) to radians.

S-band ranging measurements are in fact round trip light time measurements. As such they must be calibrated for timing delays occurring at both the station and the spacecraft. For Shuttle, S-band ranging measurements are

calibrated "on site" for station delays but not the spacecraft delay. The signal turn around delay in the spacecraft S-band ranging transponder varies slightly over a station pass. This transponder delay is assumed constant, however, and is subtracted from each S-band ranging measurement. The value of the transponder delay is provided by the JSC. The S-band ranging measurements on the GSFC file are in units of round trip light time and are converted to average slant range. The S-band ranging measurements on the JSC file have already been converted to average slant range. In either case, the ranging measurement is "calibrated" by decreasing its value by the range equivalent of the transponder delay.

S-band Doppler data from either GSFC or JSC are provided as counted cycles. Doppler frequency is obtained by differencing the counter readings, dividing by the count time and then subtracting the frequency bias. The resulting "measurement", which may be thought of as average slant range rate over the count interval, is time-tagged at the midpoint of the count interval to better approximate instantaneous slant range rate.

On option, the alternate data types, TACAN, MSBLS, and altimeter, are obtained from the spacecraft recorded data as separate files. At present, no use is made of these data for entry reconstruction though pseudo altimeter measurements were processed to improve the BET during rollout for STS-1.

Software PREOBS reads the tracking data files and merges and orders by time and station all the data types for ENTREE processing. During the estimation process blunder points can be rejected within ENTREE, either by sigma rejection or elevation masking. Another tracking data processor, OBEDIT, may be used as a preprocessor but it is really an "in-line" processor. OBEDIT is used for time deletion of selected measurements on the ENTREE input tracking data file. The "selected" measurements are either isolated blunder points or a group of measurements over a time interval. An examination of post-fit residuals is used in determining which data are to be deleted from the tracking file prior to the next ENTREE estimation run.

A.3 Dynamic Data

There are four potential sources of dynamic data available for use in ENTREE. There are the strapped-down measurements from the Aerodynamic Coefficient Identification Package (ACIP)⁽¹⁾ and the measurements from the tri-redundant IMUs. Though the ACIP measurements satisfy the ENTREE strapped-down requirements, pre-flight test results (Ref. 16) indicated that these data were not of sufficient accuracy to utilize in the BET generation. (The ACIP data are of sufficient accuracy to extract aerodynamic coefficients and, because of the high frequency (~ 170 Hz) of the measurements, are utilized by MMLE investigators to extract stability derivatives and aerodynamic control surface effectiveness). Therefore, this discussion focuses on the utilization of the tri-redundant IMUs to satisfy the ENTREE interface.

IMU data are obtained via the JSC. These data are also converted by the OEX Data Manager for LaRC use. IMU pre-processing requirements are two-fold. First, due to the redundant nature of the IMUs, comparisons must be made to define, at least on a relative basis, the performance of the triredundant set. Secondly, pre-processing to emulate the required strapped-down measurements is required.

The tri-redundant IMUs are gimballed inertial platforms whose orientations are skewed with respect to one another and are located at the navigation base in the nose of the Shuttle vehicle. The 1 σ accuracy specifications (2) for these units are defined in Ref. 17 and listed here:

accelerometer bias: 50 μ g (10 μ g)
accelerometer scale factor: 100 ppm
gyro drift bias: .035 deg/hr (.022 deg/hr)
gyro g-sensitive drift bias: .025 deg/hr/g
initial platform misalignments: (80 sec)

¹The simplified schematic, Figure A-1, does not show any pre-processing refinements to utilize the ACIP data in ENTREE. It should be understood that, at a minimum, comparisons of ACIP measurements with derived IMU body axis data are required.

 $^{^2\,\}mathrm{Numbers}$ in parentheses presume pre-deorbit calibrations and star tracker alignment.

Additionally, the IMU accumulated velocity output as measured by the accelerometers is quantized to 1 cm/sec. Likewise, the gyro gimbal resolver output, the ultimate source of the platform to outer roll quaternion, is quantized to multiples of 20 sec.

The output of each IMU consists of the 3 components of accumulated sensed velocity, expressed in M50 coordinates, and the 4 components of the platform to outer roll quaternion. This output is available from the real time telemetry data and is simultaneously recorded onboard. Because the IMU output data rate differs from the downlist (D/L) sequencer data rate, the most frequent IMU output (6.25 Hz) is not time tagged and use of these data was not considered. However, time tags associated with the velocity (and quaternion) components are stored and recorded within the D/L frame at approximately 1 Hz in order to insure data homogeneity. These data are not at a uniform rate. For example, the 4 quaternion components of all 3 IMUs are simultaneously output at a 0.96 second rate. With a 1.0 second D/L rate, each quaternion output record on the T/M tape differs in time from the previous record by 0.96 seconds, except for every 24th record which jumps to 1.92 sec when two quaternion output records fall within the same D/L frame and the first is overwritten. The same holds true for the velocity components of the IMUs (although time tagged different from the quaternion data) with the exception of an output rate change from 0.96 seconds to 0.16 seconds starting at the initialization of the entry guidance mode 5 minutes prior to entry interface. This change results in an input velocity record spacing of 0.96, 0.96, 0.96, 1.12, $0.96,\ 0.96,\ 0.96,\ 1.12$ (seconds), etc., thereafter.

Selection of the best IMU for use in ENTREE is of utmost importance. A procedure has been established to compare independently the gyro and accelerometer performance of each IMU versus the remaining two as well as combinations of the measurements from the various sets. This procedure, and STS-1 results, are discussed in Ref. 11 and briefly summarized here. Figure A-1 shows the software flow to enable the mutual comparisons, specifically the utilities PREVEL, ABSATT and CALIBRT. PREVEL provides

a measure of accelerometer performance by comparing M50 velocity measurements. These comparisons are not independent of gyro performance since the orientation of each platform with respect to the inertial frame is assumed absolutely known. ABSATT provides for a measure of gyro performance by comparing inertially referenced Euler angles as suggested independently by the triredundant set. Finally, the software utility, CALIBRT, determines first order calibrations, e.g., accelerometer scale factors, gyro drifts, accelerometer biases, of each IMU with respect to some selected fiducial reference set.

The major software required to satisfy the ENTREE interface is PREIMU. PREIMU, operating from the reformatted, edited, file generated by PRETM, derives the equivalent spacecraft rates and accelerations in the platform axes. Transformation to body axes and accommodation of sensor locations with respect to the Shuttle center-of-gravity are done internal to ENTREE. PREIMU processing of the IMU data into a form compatible for dynamic data input to ENTREE is described in detail in Reference 18. In summary, the M50 velocities are spline fitted and differentiated to yield an acceleration time history (which, when integrated, yields the original velocity history by definition) at a user defined rate with any data gaps filled, if required. The accelerations are rotated to platform coordinates using the REFSMMATs (see Table B-2 in Appendix B) and stored on the ENTREE input dynamic data file. The platform to outer roll quaternion information is combined with pad loaded navigation base to body and navigation base to outer roll transformation matrices to produce a set of platform to body Euler angles (or quaternions). These angles (quaternions) can then be spline fitted and differentiated to yield Euler angle rates (quaternion rates) at the same times as the acceleration data. The transformation to angular rates about the IMU X, Y, and Z axes is then straightforward. These rates are also stored on the ENTREE input dynamic data file, along with the platform to body Euler angles (or quaternions). These 11 element data records (time, platform attitude rates (3), platform accelerations (3), and quaternions (4) (or Euler angles (3) plus a flag (1)) provide the necessary information for ENTREE to solve for systematic IMU errors in the platform coordinate system as well as integrate the equations of motion in the strapped-down coordinate system.

As just described, the preprocessor program has the option of appending the platform to body attitude information to the dynamic data input file in the form of either quaternions or Euler angles. Furthermore, two of the 12 potential Euler angle sequences are programmed as options, with the beforementioned flag value signifying the sequence chosen. Each option has potential disadvantages. The differentiated quaternion data cannot be guaranteed to yield orthonormal transformations, while an Euler angle sequence could conceivably result in a singularity condition at a certain platform to body attitude. As it turned out, the Euler angle sequence chosen for the STS-1 post flight processing did not encounter any singularities.

As stated previously, the manipulations required to pre-process the IMU data result from the use of an inertial instrument's data in a strap-down formulation. The use of the Aerodynamic Coefficient Identification Package (ACIP) with its body mounted linear accelerometers and rate gyros would be a natural for input data. Unfortunately, the accuracy specifications associated with the ACIP preclude its use for BET generation.

ACRONYM	FUNCTION
ABSATT	Absolute IMU attitude measurement comparison software
CALIBRT	IMU calibration software for first order perfor- mance comparisons
ENTREE	Entry Trajectory Reconstruction Software
MMLE	Modified Maximum Likelihood Estimator
NEWBET	Software to merge inertial BET and atmosphere
OBEDIT	Observation data editor
PREIMU	Cubic spline processor to derive spacecraft rates and accelerations from IMU measurements
PREOBS	Software to pre-process observation data from available sources
PRETM	Software to pre-process and edit IMU data
PREVEL	IMU accelerometer performance comparison software for M50 velocity measurements
TRANS	Software to transform inertial M50 initial state estimates to ENTREE coordinates
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TABLE A-1
Software Acronyms

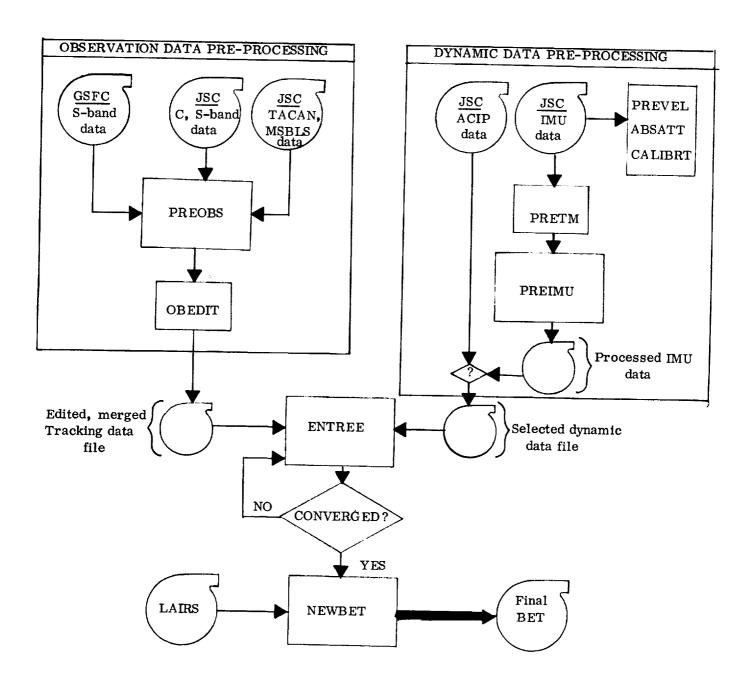


Figure A-1. Schematic of software/data interfaces required to generate BET

AYB RB AXB

Figure A-2. Definition of required angular rates and linear accelerations for ENTREE strapped-down deterministic integration formulation

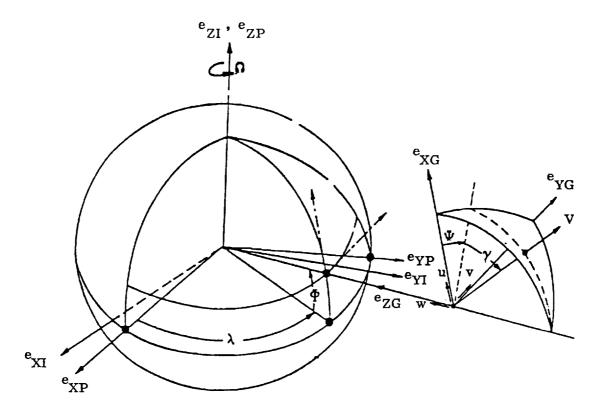


Figure A-3a. Schematic of ENTREE Earth model, spacecraft position and velocity parameters.

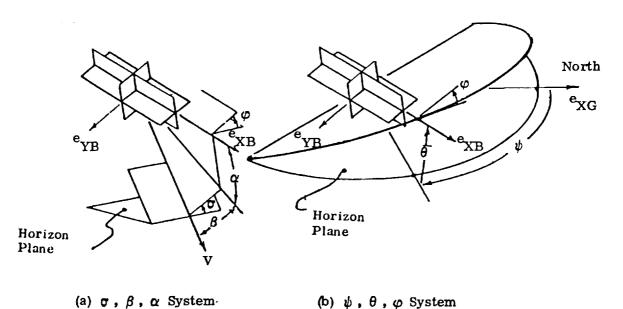


Figure A-3b. Schematic of ENTREE attitude parameters

APPENDIX B

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STS-1 MISSION SPECIFIC INPUT DATA

This Appendix contains STS-1 mission specific input data required to generate the BET. Table B-1 presents the station characteristics which includes type, internal numbering system and associated acronym utilized, the best location set for metric data processing, station frequency and radar mount if applicable, index of refraction based on the mean monthly average for April, 1981, and the atmospheric scale height utilized in the refraction modelling. Table B-2 presents the relevant attitude matrices required to process the IMU measurements to derive body axis data. Table B-3 lists the elements of the a priori diagonal covariance matrix used in the batch solution. Finally, Table B-4 presents the inputs utilized for the planet model, runway location, IMU location with respect to the Shuttle center-of-gravity, and mass properties and associated aerodynamic reference parameters required to compute the in-flight aerodynamic force and moment coefficients.

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NOTE: Guam antenna mounted North-South
Frequency is 210,64063 MHz
S-band transponder delay is 137,16 m

Station locations and refraction data for STS-1 data processing

TABLE B-1

		The second section of
"RE FSMMA	T" MATRICES (M50 TC	PLATFORM)
	(IMU1)	
-0.79266172	-0.57519790	-0.20207602
-0.44474863	+0.77226827	-0.45365167
+0.41699673	-0.26971874	-0.86796603
	(IMII9)	
	(IMU2)	
+0.39075335	-0.88816900	-0.24179873
+0.73866644	+0.45929717	-0.49337438
+0.54925762	+0.01417890	+0.83553258
	(IMU3)	
-0.11996126	-0.55783236	+0.82123822
+0.22795183	+0.78963381	+0.56966257
-0.96625435	+0.25553983	+0.03243346
NAV BASE TO O	UTER ROLL Transform	mation Matrices
	(IMU1)	1
0.99999938	-3.9528892E-4	-1.0380259E-3
3.9528871E-4	0.99999992	-4.1032019E-7
1.0380260E-3	0.0	0.99999946
	(IMU2)	
0.9999979	1.9876E-3	-5.693E-4
-1.9876E-3	0.9999980	-6.3E-6
5.693E-4	7.5E-6	0.9999998
	(IMU3)	
0.9999934	3.7771341E-3	-3.9463471E-4
-3.7771382E-3	0.99999338	-1.0690797E-5
3.9459304E-4	1.1723317E-5	1.0
NAV I	BASE TO BODY (all IMI	Js)
0.9829565	4.363323E-4	-0.1838379
-4.529508E-4	0.9999999	-4.84048E-5
0.1838379	1.308493E-4	0.9829566

TABLE B-2

STS-1 Attitude transformation matrices required for IMU processing

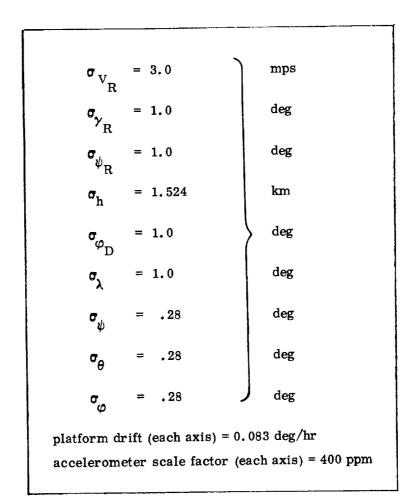


TABLE B-3
Initial state vector a priori 10 uncertainties

Planet Parameters Physical Model Polar Radius: 6356.784284 km Equatorial Radius: 6378.166 km Rotational Rate: .7292115147E-4 rad/sec Gravity Model $.398601999995E15 \text{ m}^3/\text{sec}^2$ Central term, u: .10827E-2 .256E-5 .158E-5 C₂₂: .157E-5 -.897E-6 Runway 23 Location: Altitude: 635.8128 m (above ellipsoid) Geodetic Latitude: 34.966397 deg Longitude: 242.180352E deg Azimuth: 244.413472 deg Location of IMU relative to center-of-gravity in Body coordinates (Assumed constant during Entry) $_{\mathbf{Y_{B}^{B}}}^{\mathbf{X}}$ 17.0688 m 0.0 m z_B -1.2192 m STS-1 mass properties and aerodynamic reference parameters Weight 89930.448 kg 249.909 m² Reference Area Span 23.792 m Chord 12.060 m Moments and products of inertia: 1213866 kg-m² 9378654 kg-m² 9759518 kg-m² 228209 kg-m² 6136 kg-m^2 2972 kg-m^2

TABLE B-4

APPENDIX C

LISTING OF STS-1 BET PARAMETERS

This Appendix is presented to provide a listing of the actual BET parameters at a reasonable spacing. The listing was generated from a permanent file (METBET1 under user catalog, UN = 274885C) which is the metric equivalent to STS1BET, that version in English units widely used by the user community at LaRC and the various other NASA agencies, including the AFFTC at Edwards and Rockwell personnel. Alphanumeric definition of the variables and units utilized are as defined in Ref. 7 and as noted on the listing of the header record. Above ~ 30 km, the data are presented at 50 sec intervals. The remainder of the data are given at a 5 sec spacing. Both files, METBET1 and STS1BET, are actually written at 1 sec spacing.

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DESCRIPTIVE DATA	2000M-87) V						***************************************
	SUIS	MA.() AMASETH NEOTOS	S DYNAM DATA			
D FROM	23858ACKING DATA 8-19-81 ESOLVE	A A			AFC)		
MLH IMU OPTION	IMU NUMBER	~	R SEO 1 (TAI	(TAPE NT036423845)	(5)		
FOLTED TOACHTME TAGE TENETER		SEUD	JOBPL	1ST STOP			
THE COUNTY OF THE PERSON OF TH		VARIABLE		SCALE HEIGHT REFRAC MODE	EL		
LARELS AND UNITS	ш	SM					
	SEC	(2)	VEL A	MISEC	12)	A M 4 G	< 1.0
	DEG	(5)	ALTDE	METERS]	I A TO	25.0
	DEG	(8)	SIGMAA	DEG	6	BETAA	07.0
AL PH	DEG	(11)	YAW E	DEG	(12)	DICH	310
İ	DEG	(14)	ŋ	M/SEC	(15)		17074
10)	*/SEC	(12)	VEL R	M/SEC	(18)	SAM R	717.25.4
2716	0.56	(20)	SIGMAR	DEG	(21)	BETA R	DEC
		(23)	U-WIND	M/SEC	(-24)	CNIM->	MICEL
	775	(26)	SIG-VA	MISEC	(27)	SIG-6A	DFG
	97.0	- (67)	SI G-H	METERS	(30)	SIG-LA	DEG
	0.50	32)	51G-SA	DEG	(33)	SIG-BA	DFG
	DEC	125	516-YE	DEG	(36)	SIG-PE	DEG
	MICEL		716-U	M/SEC	1361	\$16-V	MISEC
	NELTON		TACH A	NONE	(42)	MACH R	NONE
(46) 0 A	NEUTON / 42	(2)	L L L	DEG KELVIN	(.45)	RHO	KG/M3
	DEGISEC	205	¥	NEWTON/M2	(48)	PSTAG	NEWTON/M2
(52) X ACCEL	M/SEC/SEC	(53)	A ACCES	NACED ACE	(51)	a	DEG/SEC
(55) CXB	NONE	(56)	CYB	אסאר	1967	ZACCEL	M/SEC/SEC
(58) CL	NONE	50)		NUNE	(22)	СZВ	NUNE
	NONE	(62)	CM-PTTCH	NONE	705	1.0	NONE
(64) PODT	DEG/SEC2	(65)	TOGO	DEG/SEC2	(99)	RODI	NONE DEG/SEC2
NUMERICAL DATA							
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				- 1	11555850101	HOG A	.4721815E+02
TIME	0.	VEL A	. 7411084E+04	A HAG	14074135+03	15	7416849E+01
AL TDE	.1829935E+06	LATO	1933955E+01	- ING	201010101	OTCH E	3429357F+02
RETA A	1525754E+01	ALPHAA	.3559273E+02	YANE	4344406402	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16066236403
l	9021912E+01	=	.5032650E+04	- 1	• 5916398E+04	3	10470444
٥ إ	7011086E+04	SAM R	1155585E+01	HDG R	.4721815E+02	SIGMAR	10+36+001+/*-
١.	- 1525755E+01	AL PHAR	.3559273E+02	ONIM-0	0.	ONIMO	0
A T I		0 T C = V A	- 3087988E-02	SIG-6A	.2155279E-03	SIG-HA	.7849792E-04
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N-918	16/8/1/E+UZ	516-LA	12160105-02	OT G-YF	.4913874E-02	SIG-PE	.9590285E-03
SIG-BA	4590285E-33	##=a14	70057055	016=V	- 8710301E-02	SIG-W	.2790712E-01
SI G-PE	-1316919E-02	D	10010010	210	19656625-03	TEMP	. 88604C0E+03
MACH A	.1242170E+02		20.10.10.10.10.		1560008F-01	PSTAG	.3914212E-01
RHD	.5680591E-39	V 0	12600065-01	1	6442245-01	X ACCE	3147758E-03
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TIME	. 5000000E+02	VEL A	10737777	: 4	1431447F+03	SIGMAA	1665779E+01
AL TDE	1755132E+06	LAID	441473905444	2 11 4 %	4843518E+02	PTCH F	4038439E+02
BETA A	2760406E+01	ALPHAA	41507745+02	TANE	5025741E+04	ĺ	.1531288E+03
ROLL E	2258910E+01	- 4	.5024256E+U4		177777 V	CTCMAD	1665779E+01
VEL R	.7420425E+04	GAM R	1182447E+01	H1)6 K	4	N-UTND	
RETA R	2760406E+31	ALPHAR	.4150774E+C2	ONIM-II	0.00		2088533E-04
		SIG-VA	.4190062E-02	SIG-6A	£2034844E=02	ALVIA C	V-1076100
7 7 7 7	15434666+32	STG-LA	.3883951E-04	216-10	.2176291E-04	AK-9TK	4602200E
40-01	8263465F-03	CIG-AA	.1273048E-02	SIG-YE	.4805250E-02	SIG-PE	•8203402E=U2
210-PA	20-10-10-10-1	715-11	. 6587475E-02	λ-91S	.9865759E-02	SIG-W	. 2638135E-01
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MACH A	20131146172	1	2038001E-01	a 0	.2038991E-01	PSTAG	.5027433E-01
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	-5068756E+02	-2118261E+00	2007121	**************************************	•1633172E+03	•2118361E+00	0	-9198980F-04	74.01 EAC AC		• /990800E-03	-1553877F-01	-4640705E+03	240034601	*2007/20E+00	2648829E-02	0	0.	2798049E-03
	HDG A	SIGMAA	DTCH C	1.6		SIGMAR	V-WIND	SIG-HA	A TOTA		3.16-72	SIG-W	TEMP	DCTAC	A LAIS	X ACCEL	CYB	1/0	PDOT
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ALTDE	•1212568E+UB	LAID	41143705402	N 1 4 4	51477635+02	PTCH E	.3991692E+02
j	•2079053E+00	ALMAA	44103/25404		43100446+04	>	.1629460E+03
-4	.2710333E-01	- 1	40430204404	0 001	F144774E+02	CTCMAR	16267295-01
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SI 6-H	.8422760E+01	S16-LA	•1022204E=04	010-C	44846402	71G-PF	. 7683353E-03
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	01139224E+U0	AID	11054305403	7 × ×	5306283E+02	PTCH E	.3981815E+02
- !	-1055749E+30	ALPMAA	441020395404	VAN	4410327F+04		.1619232E+03
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ONIMA	7010446401	OTC-1A	1774327F-04	01-915	.1617633E-04	SIG-SA	. 4570373E-02
S16-H	77.305345-03	0.10-AA	2614551F-02	SIG-YE	.4570373E-02		.7428534E-03
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-5403352E+02	- 41 805 405	- 40100247E+00	**************************************	• 1601898E+03	6180548E+00	0.	-9756434F-04	443518AF-02	71548185-02	.9406152E-02	-2298640F+03	.1014412E+02	8625471F-02	2174904F+00	.2273205E+00	55444045-02			*5542868E+02	.7483893E+00	.3964238E+02	*1567561E+03	-7483893E+00	0	-9925349F-04	44322850F-02	.6726652E-03	-7376851F-02	.1990623E+03	3408779F+02	1605490F-01	1189246E+00	.7795361E+00	CO 15.100.10
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.7506474E+04	.2326693E+02	.4123141E+02	*4407637F+04	-12227085101	1013017001	041731415+02	.1311222E-01	•1952567E-04	12681564E-02	.5641755F-02	.2470169E+02	.5135373E+01	1018046E+00	1188864E-01	*2357827E+00	2122779E-01	2900822E-02	. 7513054E±04	25102625.02	201338402	70+31714804	**************************************	1195391E+01	-4084121E+02	1351872E-01	-2159901E-04	•2775128E-02	\$719040F-02	*2657053E+02	*1773056E+02	2546427E-01	8092689E-01	• 1061324F+01	3151517F-01
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1 100	10700076+01	=	.4095668E+04	>	.6721915E+04	3	149/231E+U3
KULL E	75175205434	Q W Y U	11414375+01	HDG R	.5697146E+02	SIGMAR	8438758E+00
VEL 7	03574345-01		3894090F+02	ONIM-D	0.	ONIM-A	•0
BEIA K	-44501064-VA	AVE OF O	13781825-01	\$16-6A	.4004424E-04	SIG-HA	.1004903E-03
CNIA	0	21.2-14	26136665-06	01-10	-2078424E-04	SIG-5A	.4139103F-02
SIG-H	•6678072E+01	216-LA	FO 130,0000	27.5	4130103E-02	0.TG-PF	-6845734E-03
SIG-BA	6845734E-03	SIG-AA	- CB 3 4 C 2 E - U C	1 2 2 2 3 2 3	10520125-01	7 U C - W	.5472265F-02
SIG-RE	.2833425E-02	SIG-U	. 58056/25-02	7-91C	10-36163641	11110	10007005+03
MACHA	.2720467E+02	MACH R	2720467E+02	PINE	12489/35+00	7136	11007418+03
	.2264485E-05	A 0	.6398668E+02	α σ	• 639866	TO I AG	60.040.000
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1004							
TIME	4500000E+03	VEL A	.7520048E+04	GAM A	1026528E+01	HDG A	.5896717E+02
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KULL T	78120235404	O MY	1027624E+01	HDG R	.5866372E+02	SIGMAR	1307155E+01
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BELA K	0.042703/1400	0 T G = V A	1389776F-01	SIG-6A	.2921391F-04	SIG-HA	-1008847E-03
	1043000004	0.1C-1.A	2675815F-04	ST6-L0	-2467600F-04	SIG-5A	*3888386E-02
N-918	10204030E		2728101E-02	STG-YE	-3888386E-02	SI6-PE	.6225878E-03
S16-8A	60720101000		5847021E-02	×16-V	-1867378E-01	N-918	.3965720E-02
Υ!	27327045402		.2729883F+02	PINF	.3986819E+00	TEMP	.1884860E+03
MACH	2013013012		20025116402	0	-2079072E+03	PSTAG	.3835447E+03
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CCEL	210		316-AA	.2817019E-02	SIG-YE	-379888F-02		. 5927240F-03
1797814E-04	4 70 4 70		-	.5721342E-02	λ-91S	.1852396E-01	SIG-W	343700KE-02
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R .7402760E+04 GAM R 3065961E+00 HDG R .6276855E+02 SIGMAR IND 0. .1279037E+00 ALPHAR .4038729E+02 U-WIND .1788948F+02 V-WIND IND 0. SIG-VA .1253099E-01 SIG-A .2991223E-04 SIG-HA -H .6584789E+01 SIG-LA .3214390E-04 SIG-LD .335025F-04 SIG-PE -RA .7859227E-03 SIG-LA .2358834E-02 SIG-N .3258952F-04 SIG-PE -RE .2368634E-02 SIG-LD .335025F-04 SIG-PE -RE .2368634E-02 SIG-N .3258952F-04 SIG-PE -RE .2626137E+02 MACH .2616895E+02 SIG-N .1696014F-01 SIG-PE -2744339E-04 0 -7572806E+03 0 .7519603E+03 XGCEL .4145404E-03 XGCEL .4145404E-03 XGCEL .2742717E+01 CXR .9198189E-01 CYR -1333758E+01 CH .955688E+00 CN-YAW .9556634E-02 CYR </td <td>KULL F</td> <td>1</td> <td></td> <td>•3387351E+04</td> <td></td> <td>. 6081321E404</td> <td>1</td> <td>•1/06/1/E+02</td>	KULL F	1		•3387351E+04		. 6081321E404	1	•1/06/1/E+02
A R7279037E+00 ALPHAR .4038729E+02 U-WIND .1788948F+02 V-WIND .100 0. SIG-VA .1253099E-01 SIG-GA .2991223E-04 SIG-HA .4214390E-04 SIG-LO .3350255F-04 SIG-PA .4216390E-04 SIG-NO .3350255F-04 SIG-PA .421639E-02 SIG-VE .3268634E-02 SIG-VE .3258952F-04 SIG-PE .4266137E+02 MACH R .2616895E+02 SIG-VE .1569160E+01 SIG-WE .2744339E-04 Q A .7572806E+03 Q R .7519603E+03 PSTAG .4264339E-04 Q A .7572806E+03 Q R .7519603E+03 PSTAG .4145404E-01 Z ACCEL .4145404E-01 Z ACCEL .2742717E+01 CXR .6215656E+00 X ACCEL .1333758E+01 CL .9198189E-01 CXR .9555684E+00 CD .9350183E+00 L/D .757543E-02 CM-PITCH .4578014E-02 CN-YAW .5556634E-02 PDGT .	VEL R			3065961F+00	:	10111101111	Z	• 3401280E+02
IND 0. SIG-VA .1253099E-01 SIG-GA .2991223E-04 SIG-HA			AVHOI	4038 720E402	2001	• 02/0832E +02	SIGMAR	•6181721E+02
-H .6584789E+01 SIG-LA .3214390E-04 SIG-LO .3350255F-04 SIG-SA .8214390E-04 SIG-LO .3350255F-04 SIG-SA .8214390E-04 SIG-LO .3350255F-04 SIG-SA .82589527E-03 SIG-NA .8258952F-02 SIG-NE .3258952F-02 SIG-NE .8258952F-02 SIG-NE .82565137E+02 MACH R .2516895E+02 PINF .1569160E+01 TEMP .82742339E-04 Q A .7572806E+03 Q R .7519603E+03 PSTAG .8274256F-01 Z ACCEL .84145404E-01 Z ACCEL .82742717E+01 CXR .8215656E+00 X ACCEL .82742717E+01 CXR .89198189E-01 CXR .89555684E+00 CD .9950183E+00 L/D .8955684E-02 PDOT .85582169E-01 PDOT .81467814E+00 CD .9955634E-02 PDOT .88582169E-01 PDOT .81467814E+00 CN-YAW .85556634E-02 PDOT .88582169E-01 PDOT .88582169E-02 PDOT .88582169E-01 PDOT .88582169E-02 PDOT .88582169E-01 PDOT .88582169E-02 PDOT .8858216E-02 PDOT .88582169	CAIMIN		1 G- VA	12520005-01	ON THE	.1788948F+02	ONIMIN	.2019097E+02
-RA .7859227E-03 SIG-AA .235854E-02 SIG-YE .3258952F-04 SIG-PE .2358634E-02 SIG-YE .3258952F-02 SIG-PE .2358634E-02 SIG-YE .3258952F-02 SIG-PE .2358634E-02 SIG-YE .3258952F-02 SIG-PE .25586137E+02 MACH R .2616895E+62 PINF .1569160E+01 TEMP .25744339E-04 Q A .7572806E+03 Q R .7519603E+03 PSTAG .2544539E-01 Z ACCEL .4145404E-01 Z ACCEL .2742717E+01 CXR .6215656E+00 X ACCEL .2742717E+01 CXR .9198189E-01 CXR .21333758E+01 CL .9198189E-01 CXR .9198189E-01 CXR .25432169E-01 PD0T -1467814E+00 CD .9350183E+00 L/D .	SIG-H	-6584780E+01	T C - 1	331,3000	016-6A	.2991223E-04	SIG-HA	.9268739E-04
-RE .2368634E-02 SIG-U .5588162E-02 SIG-YE .3258952F-02 SIG-PE2368634E-02 SIG-V .1696014E-01 SIG-W2626137E+02 MACH R .2616895E+62 PINF .1569160E+01 TEMP2744339E-04 Q A .7572806E+03 Q R .7519603E+03 PSTAG985933E+00 Q .3119772E+00 R .6215656E+00 X ACCEL4145464E-01 Z ACCEL2742717E+01 CXR9198189E-01 CYR9133758E+01 CL9555684E+00 CD .9350183E+00 L/D2432169E-01 PDUT1467814E+00 CD .9350183E+00 L/D	CIG-RA	١,	10-LA	• 3C1 4 39 UE - U4	516-10	•3350255F-04	SIG-SA	.3258952E-02
H A .2626137E+02 MACH R .2616895E+02 PINF .1569160E+01 SIG-W	0 T C - D E	ŀ	DO 67	i	SI G-YE	.3258952F-02	SIG-PE	.7859227F-03
CCEL .4145404E-01 Z ACCEL .274239E+00 R .7519603E+03 PSTAG .9859333E+00 0 .3119772E+00 R .6215656E+00 X ACCEL - CCEL .4145404E-01 Z ACCEL2742717E+01 CXR9198189E-01 CYB 1333758E+01 CL .9555684E+00 CD .9350183E+00 L/D T5432169E-01 PDDT1467814E+00	MACH	-	⊃.	ĺ	SIG-V	•1696014F-01	SIG-W	-3835761F-02
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ULL -1057543E-32 CM-PITCH4579014E-02 CN-YAW5556634E-02 PDOT5432169E-01 PDOT1467814E+00	877				CD	40	1 /0	10210705-01
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1 1 M F	. 800000E+03	VEL A	.7328216E+04	GAM A	2270531E+00	HDG A	•6550129E+02
ALTOC	74156655405	IATO	-3353062E+02	5 NU	.1859357E+03	SIGMAA	.7530957E+02
DETA A	1648800F+00	AI PHAA	.4053284F+02	YAW E	.1050472E+03	PTCH E	.9433958E+01
A H 1 CO	78687535+02	=	-3011449E+04	>	.7045853E+04	3	.2904036E+02
0	73020845404	GAM R	2278376E+00	HDG R	.6564670E+02	SIGMAR	.7530944E+02
] <	2025154E+00			_	.2733873E+02	ONIMO	.1529671E+02
1 7	0	O TG-VA	9700547F-02	SIG-GA	.2121638E-04	S16-HA	.7528334E-04
	4443187E+01	STG-1 A	.3476703E-C4	SI 6-10	.3665596E-04	SIG-SA	.2307764E-02
40 01	16622275-72	STG-AA	1713184E-02	SIG-YE	.23077645-02	SIG-PE	1542227E-02
A 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	17121065-02	016-11	5189689F-02	V-918	.1318048E-01	SIG-W	.2727119E-02
Y	267616407	D TVW	.2569277E+02	PINE	.1896232E+01	TEMP	*2011088E+03
MALH A	70-37127000	4	8819906F+03	۵ 0	87592735+03	PSTAG	*1623715E+04
КНШ	22867286430		7478884F-01	~	8869399E-01	X ACCEL	2201846E+00
1	16414005-02	7 4 6	٠,	CX B	9188774E-01	CYB	6516923E-03
Y ACCEL	13404475		90525795+00	G	89496065+00	9	1011506E+01
1 100 1	- 44349375-03	TOLLOW	7818218E-03	CN-YAW	-,9197818E-03	PDOT	1155864E+00
QDDT	1239156E-01	RDUT	- <u>.3126265E-01</u>				
		4 101	72101035404	A X	1712232F+00	HDG A	.6851317E+02
I MF	48500000E+U3	4 14	27.78.27.75	···	1895168E+03	SIGMAA	.7099483E+02
ALTDE	- 00041415-01	VVNOIV	39453845+02	YAW F	.1063969E+03	PTCH E	.1174009E+02
BELA A	10-1010101-		2611833F+64	!	7093660E+04	35	. 2157359E+02
KULL F	71073046404	Q M V	1717398F+00	HDG R	6872233E+02	SIGMAR	. 7099401E+02
Y.)	- 2225566-01		3925624E+02	QNIX-1	.3242192E+02	ONIM-A	.1063019F+02
BELA K	0	016-VA	7092036F-02	SIG-GA	.1937882E-04	SIG-HA	•5861998E-04
	10797809777	0.16-1 A	3719192F-04	SI 6-LD	-3799440E-04	SIG-SA	.1854296E-02
710	14855335-02	0 1 G - A A	.1450211E-02	SIG-YE	.1854296E-02	SIG-PE	.1685533E-02
10 0 TO	16502115-02	CTG-11	46387375-02	S16-V	.9653780E-02	N-918	.2475876E-02
2 1 6 1 C	25212415402	Q IJVX	2523725F+02	UNLO	.2171534E+01	TEMP	.2024499E+03
MACH	70-36677666		07360615+03	۵ 0	.9678441E+03	PSTAG	•1792574E+04
× HU	4 204 91 25-01	1	46202525-01		.4801152E-01	X ACCEL	2295132E+00
- 1	100000000	7 8005	- 2101508F+01	e × C	8672634E-01	CYB	.3789013E-0
T ALLER	11710405401	-	8498097F+00	CD	.8116997E+00	1/0	.1046951E+01
677		PATTON	2252915E-03	CN-YAW	1208988E-02	PDOT	6910812E-01

		PAGE 10 *	一种人工作品的工作工作工作工作工作工作工作工作工作工作工作工作工作工作工作工作工作工作
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TIME	.90000000.	VEL A	.7101467F+04	A M A S	- 17124525400		
AL TDE	.7464926E+35	LATD	.3585477F+02	10	10217105+00	A 2010	• /1 /0928E+02
- 1	1944434E+00	ALPHAA	.3962764E+02	YAWF	10005745403	DICHAR	• 0 / 04 802 E+62
1†	.7171584E+02	n	•2193435E+04	ı	71183835+04	H	21 22 300E+02
O∡i	.7084690E+04	GAM R	1716707E+03	HDG. R	71044475402	0 4 7 7 7 7	*5122/22E+02
BETA R	94474366-01	ALPHAR	·3939262F+02	-	25271105402	SIGHAR	• 6/0466E+02
CNIMIN	• 0	SIG-VA	4821767E-02	OT C-CA	2072611195402	0 Z Z Z Z	•6085235E+61
SI 6-H	.6602177E+01	SIG-LA	39284025-04	71.016A	375, 330F	SIG-HA	•4255815E-04
SIG-BA	.1632668E-U2	STG- A A	14544445-02	010	40-16//40/04	>16-5A	.1778473E-02
SIG-RE	-1454466F-02	C16-11	28570505	71-010	-1 (/84 /3E -02	SIG-PE	*1632668E-02
MACH A	-248348RE+02	O TOVE	1302/22/E-UZ	7-975	.6505514E-02	N-918	*3866767E-02
	41414215-04	L 7	*24//6215+02	-	.2431368E+01	TEMP	•2035281F+03
0	10343031	4	•1049372E+04	8	•1044420E+04	PSTAG	-1931940E+04
!	1826/03E+00	-	4900212E-01	œ	5031054E-01	X ACCE	2433202400
ALLEL	66203281-32	ZACCEL	3349225E+61	CX B	8528471E-01	-	23204515-02
477	1173916E+01	73	*8497629E+00	g	.8144055F+00	27	10626155
1104-15	1043120E-03	CM-PITC4	.3844496E-03	CN-YAW	.5196660E-03	POOT	2225026
4000	.7557918E-02	ROUT	.1825767E-01				-• ((/28/20E-0)
TIME	.9500000E+33	VEL A	.6972595F+04	A M AG	- 14746601400		
AL TDE	.7390548E+05	LATD	.3673582E+02	100	10688005+02	ADG A	. (206597E+02
اسا	8737689E-01	ALPHAA	•3935873E+02	YAVF	11054205+03	DICHAR	-5040245E+02
	•6606039E+02	U	.1759929E+04	1	71140126+02	ביות בי	*1811551E+02
	.6962630E+04	GAM R	1678958F+00	HOG P	75250505+03	× 10 × 10	*2040280E+02
BETA R	.5728893E-01	ALPYAR	-3911554F+02	-	26820605+02	N LITTER	-5030453E+02
M-WIND	0.	\$16-VA	*3184037F-02	STG-6A	40477206-04	0 1 W 1 W 1 W 1	*2839490E+00
816-н	-6424584E+01	SIG-1 A	4089817F-04	0 1 G-1 D	256.01045-04	AH-913	-2861862E-04
SIG-BA	1593975E-02	SIG-AA	-1423922F-02	CI G-VE	14000357 00	AZ=017	*1689825E-02
SIG-RE	•1423922E-02	S I G = U	-2973616F-02	VI 6-V	70201007	74-010	-1593975F-02
MACH A	•2431837E+02	MACH R	-2428362E+02	DINC	27, 503, 6.00	M-916	•6121335E-02
PHO	•4674615E-04	1	11363305+04	9 0	11336645	IEMP	*2046313E+03
۵	2573844E+00		-2198735E-02		٠	4	.2092085E+04
Y ACCEL	1250763E-02	Z ACCEL	3716158F+01	CYB	- 8672726-01	AALLEL	2680588E+00
673	1202457E+01	บี	·8745774E+00	CD	82078406400	9.	40 / 95 19 E-03
CL-ROLL	• 4864056E-04	CM-PTTC-	•1033960F-63	NAY-NO	- 25802575-03	L/10	•1053982E+01
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TIME	* 1030000 *	A 14.	7,9199	ا ر	2006184F+03	Σ	.5751254E+02
		LAIU	20222525405	7 7 7 X	11320435+03	PTCH E	.1977688E+02
1	- 14034735-02	ALTAG	13162075+06	V	. 7075710E+04	1	.1824919E+02
-1	3043101000	2 3 4	15200705400	a gun	7888475+02	SIGMAR	.5751209E+02
≥	• 68296/6E+U4	1 -	20076015402	1 ⊢	3633701F+02	CALBLA	4702921E+01
BETA R	.1633382E+0U	ALVIAK	20017516-02	0 T G - G A	7228425E-04	S I G-HA	*1809989E-04
0 × 1 × - ×	•0	516-VA	70-33067067	010	22005255-04	CIGECA	1686388F-02
SIG-H	•6131567E+01	S16-LA	*41946036-04	21010	14843885-02	ATG-DE	.1512020E-02
SIG-RA	•1512020E-02	216-A4	21062626	21-016	2083009E-02	0.1 G−W	8783484E-02
SIG-RE	.1473062E-JZ	⊃	• 21002436-02	71010	20300000	TEND	2055774F+03
MACH A	.2377369E+32	<∵	• 23 76504E+02	⊸¦	1010101010101	STAT	2225814F+04
RHO	.5203109E-04	A 0	.1214364E+04	¥	*1713401E±04	5 6	O LOT WE LOT
۵	1988239E+30	0	4959381E-02	~	5912886E-01	X ACCEL	
Y ACCE		Z ACCEL	4039302E+01	CX B	8643671E-01	CYB	2463619E-02
r	-112226778+01	 	.8909171E+00	c۵	. 8418299E+00	7/0	9
CI -RUI 1	3478702E-05	CM-PITCH	6319307E-04	CN-YAW	.1231838E-03	POUT	2058075E-03
<u> </u>	-,1245148E-02	ROUT	.5199979E-02				
	7010000000	VET A	46870675+04	AMAG	18614775+00	HDG A	.8222724E+0
TE T	+0.10.00001.	ال الله الله الله الله الله الله الله ا	37008265402	14		STGMAA	. 5576823E+02
a ai		LA 1 D	20708545402	7 N V	1167944F+03	PTCH E	.2086545E+02
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עבר א סהדא ס	**************************************	II	. 3955117E+02	1	.3383503E+02		1023310E+02
17		Λ16-VΔ	.3975743E-02	SIG-6A	.9803241E-04		.1533497E-04
N 1 0 1 0		STG-1 A	.4234065E-04	SI6-L0	.2778194E-04	į	.1608731E-02
010-010	1468985F-02	SIG-AA	.1444419E-02	SIG-YE	.1608731E-02	į	.1468985E-02
01 C - 0 T C	20-3617777	516-11	.1629115E-02	SIG-V	.3834418E-02	- !	.1168166F-01
MACE A	2310334F+02	MACHR	.2321297E+02	PINE	.34783456+01	TEMP	.2065401E+03
	58668915-04		.1309352E+04	α 0	.1311569E+04	PSTAG	.2410779E+04
0110	2408348F+00	1	1070348E-01	Į.	1126635E+00	X ACCEL	3003229E+00
\ \ \ \ \ \	4647900F-02	7 ACCEL	4346050E+01	C X B	8428671E-01	CYB	-,1304450E-02
	1219735F+01]_	.8831705E+00	CD	.8454977E+00	1/0	.1044557E+01
- 100-10	7813967F-06	CM-PITCH	.3011826E-03	CN-YAW	1419990E-03	PDOT	1518476E-02

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TIME	.1100000E+04	VEL A	.6510536F+04	GAM A	- 21350045400			- 1
AL TDE	•7137868E+U5	LATO	.3819659F+02	IONG	20806026+03	O T C A A	63015001.00	
	1637273E+00	ALPHAA	.4028792E+02	YAW E	12013516+03	A HOLO	2040503E+02	- 1
	.5991213E+02	n	.4262114E+03	^	.6882477F+04		242400975+02	- 1
~ `	•6526363E+04	GAM R	2129828E+00	HDG R	.8625554F+02	SIGMAR	53013866402	- 1
BETA R	2050549E-31	AL PHAR	.4009424E+02	ONIM-D	.2641083E+02	ONI M-A	1764772E+02	1
27313	•0	SIG-VA	.5492423E-02	SIG-GA	.1261664F-03	SIG-HA	.2152185F-04	1
H=010	*5179822E+01	SIG-LA	•4203807E-04	S16-LD	.2308871E-04	SIG-SA	.1510174E-02	
STC-DE	1076177	S16-AA	1378144E-02	SIG-YE	-1510174E-02	SIG-PE	-1434808E-02	1
A TOTAL	20526055	-	-2096832F-02	SI 6-V	.5390215E-02	816-W	-1471594F-01	ł
DALE A	. 2253992E+02	MACH R	*2259471E+02	PINE	•4133928E+01	TEMP	-2076736E+03	
משו	•0434261E-04	0 A	.1469678E+C4	α	*1476833E+04	PSTAG	-2706077F+04	
	•1111486E+00	0	3150628E-02	8	.1581400E+00	X ACCEL	3228211E+00	
C78	1222272E-02	Z ACCEL	4894043E+01	CXB	8068789E-01	CYB	■ 6916034E-03	
100-10			.8809235E+00	CD	-8525361E+00	170	-1033298E+01	
TOUC TOUC	-,7282223E-04	CM-PITCH	.2367941E-03	CN-YAW	- 8587325E-04	PDOT	2394482E-01	1
1000	-0084902E-02	RDUT	4958012E-02					
	Western the control of the control o							i
T ME	.1150000E+04	VEL A	.6322661E+04	GAM A	2627027F+00	HDG A	89058575+02	1
	. 7004676E+05	LATD	-3828894E+02	LONG	*2116957E+03	SIGMAA	-5066537F+02	1
- 1	1235310E+00	AL PHAA	.4010877E+02	YAW E	.1230347E+03	PTCH E	.2380121E+02	1
KULL E	•5770752E+02	n	9211252E+01	٨	.6716998F+04	3	-2898948F+02	
VELK	•6347514E+04	GAM R	2616742E+00	40G R	.9008315F+02	SIGMAR	. 5066466F+02	1
DELA K	-4236642E-31	AL PHAR	-4001177E+02	U-WIND	+1378276E+02	V-WIND	2484743E+02	
OTC-U	.6.5.7.7.6.9.	\$16-VA	-7106497E-02	\$16-6A	.1575487E-03	SIG-HA	-3102095E-04	ŧ
STG-RA	13862275-02	A1-118	4103444F-04	S16-10	-1882717E-04	\$16-SA	1440741E-02	J
STG-RF	13380315-02	STC-11	1348031E-02	SIG-YE	-1440741E-02	SIG-PF	.1386227E-02	1
MACH A	27183647F+12	MACH D	2102220E±02	516-V	. 7000440E-02	SIG-W	•1793309E-01	I

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2086831E+03 3145223E+04 -.3546313F+00 -1463736E-02

> X ACCEL PSTAG

.1721555E+04 *1129734E+00

-5119104F+01

PINF

-1709101E+04

2192230E+02

MACH

2183647E+J2 *8545626E-04

OHa

o

.1042876E+01 -2126593E-01

PDOT 9 CYB

.8200720E+00 -.7623389E-01

-9130589E-04

CN-YAW

-5947477E-02

CM-PITCH

ROUT

-3091029E-01

CXB ∞

> -. 5500508E+01 *8552330E+00 -9810349E-03

Z ACCEL

6839132E-02

Y ACCE

.3629922E-01

--1182425E+01 .4203238E-04

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	A 12W ACT TOOOCC	.6112826F+04 G	GAM A	3272837E+00	HDG A	. 9409298E+02
I ME	4 4		(1)	.2152238E+03	SIGMAA	\$144557E+02
111			7 W F	.1275029E+03	PTCH E	2344119E+02
⅃		4.3408025463		*6498609E+04	3	.3491736E+02
ROLL E			0 001	94069985+02	SIGMAR	.5144572E+02
VEL R				-, 2169153F+00	ONININ	3151688E+02
BETA P	4193633E-U1 ALPHAK		016-64	1942213F-03	SIG-HA	.4123190E-04
ONIMO			0 1 C 1 C 1 C	1424128F-04	S I G-S A	.1385059E-02
SI G-H	1		210-010	1 28 50595-02	STG-PE	.1337620E-02
SIG-8A	١		7 - 3 - 3	94056075-02	N-910	-2149735E-01
SIG-RE	S16-U		7-916	44723845401	TEMP	.2091875E+03
MACH A		-	_	20077545	DATAG	.3823518E+04
вно	.1111342E-03 0 A		× ×	001000000	A ACCEI	41 04676F+00
0	.1651711E+30 0		8	10303025400		10252475-02
			CXB	7255094F-01	CYB	10/238/1-04
T ALLEL	=	_	CD	. 7912866F±00	1.40	10405245+01
1100-13			CN-YAW	6684666E-03	PDGT	6420673E-01
1000	.8342740E-02 RDDI	4987096F-01				
			1		V 301	- 9838785F+02
TIME	.1250000E+04 VEL A		GAM A	219490	CTCMAA	51989375+02
AI TDE	*6629312E+05 LATO	1	rd .	1000/617.03	OTCH E	2310283F+02
RETA A	1380888E-01 ALPHAA		YAWE	1320421543		20+3629F+02
1	.5893325E+02 U		\ \ \	60273636403	CTCMAD	5198972F+02
α	. 5904668E+04 GAM R		HDG K	. 4834373ETUC	V-LITAID.	- 28030085+02
		.4033932E+02	U-MIND	3492955±00		5227148E-04
1 2	O. SIG-VA	.1073090E-01	SIG-6A	2393401=03	AL-017	12707855-02
N T C - H	3109841E+01 SIG-LA	.3709068E-04	216-10	*16/02/8E=04	A C - 51 C	2000000
0 T C - D A		.1189722E-02	SIG-YE	1270785E-02	S16-PE	25,24005-01
0 0 0 10	11887226-02 \$16-11	.6139596E-02	S16-V	.1029562E-01	V 16-W	0.300000
310-45		19852386+02	PINE	.9264618E+01	TEMP	• 2202003E+03
MACH A		2530423F+04	α Ο	.2555098E+04	PSTAG	. 4660185E+04
вно	9	5220082E=02		.5201864E-01	X ACCEL	4744076E+00
- 1		•	CXR	6876311E-01	CYB	.2599840E-03
Y ACCEL	1	0047600	3	77524275+00	1 / D	.1041801E+01
CZB			747	37072805-03	PDOT	.7045979E-01
CL-ROLL		•	KIN LAN			
		2427272				

*8232341E+QQ CQ .7775540E+CQ .7775540E+CQ .3523227E-Q3 CN-YAW .1215958E-O2 .1313503E+QQ .5234219E+Q4 GAM A5635488E+QQ .3684577E+Q2 I CNG

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						2013010101
TIME	1400005+04 VEL A	.4821749E+04 G	GAM A	7155977E+00	HUG A	10136/35/03
110	1	3636111E+02	DNC	,2274571E+03	SIGMAA	2 (29/48E+UZ
ı i		4093805F+02	YAW E	.6535878E+02	PICH E	20154521402
- 1		ì	,	.5132115E+04	3	.6021984E+02
_			10 C	.1012268F+03	SIGMAR	5729627E+02
VEL R				- 3428210F+01	CNINI	2617978E+02
BETA R	5143586E-J1 ALPHAR		ONT MIN	14033335-03	OT G-HA	
CNIN-N	O. SIG-VA		SIG-6A	• 1603333E-US	210	1000,000
M-DIO	3330602F+01 SIG-LA		216-10	.2750633E-04	516-5A	20.2346-02
40			SIG-YE	.1008494E-02	SIG-PE	• 6194824E=U3
216-8A			V-618	.3615551E-02	SIG-W	.1471493E-01
~!			DINE	. 2488254E+02	TEMP	.2510105E+03
MACH A	MACH		0	40561265+04	PSTAG	.7397836E+04
RHO	.3453346E-J3 Q A		ı	10-366026	X ACCEL	7383940E+00
a	.1850162E+00 0		Y	• 412020CE-VA		40-3226-04
1000		1295765E+02 (CXB	6732811E-01	CX B	-0-1(+3535-V-
41.65	٦		CD	.8250314E+00	100	•1028334E+UI
173			CN-YAW	.2302977E-03	P001	.7599356E-01
רו -אחרר						
מהחו				and comments of the state of th	-	
			7	- 40047345+00	HDG A	.9792056E+02
TIME				22004046+03	STGMAA	4730244E+02
AL IDE			9817	4473347E+02	PTCH F	2508375E+02
REIA A			N N	7047945404]	.4535111E+02
ROLL E	į	1	Λ.	07700085400	ATCMAR	4730099E+02
VEL R		1	40 K	F 26006.20401	CNIDEX	- 3996176F+02
BETA R	5299749E-01 ALPHAR	1	ONTM-D	10-17-00-1-	V T C T C	104641 F-03
CXLXIX	O. SIG-VA	.4255726E-02	216-6A	• (283220E-04	AL OTO	10010055-02
H-913	3500998E+01 SIG-LA	2443432E-04	216-10	268222E-04	Ac-arc	5000001
V T C T C	5082201 F-03 STG-AA	.1258110E-02	SIG-YE	.1081905E-0Z	- 216-PE	59.027.53.65.05.05.05.05.05.05.05.05.05.05.05.05.05
210		.8954613E-02	7-91S	-4289463E-02	N-915	-04211(2E=02
2 10 1 K			PINE	.3659652E+02	TEMP	.2579009E+03
MACH A			<u>م</u>	.4712068E+04	PSTAG	8533276E+04
RHO		10-36-70-01		2348816F-01	X ACCEL	9271003E+00
٥	1838604E+00 U	1/36/66/07	۵× ر	7325381E-01	CYB	4270393E-02
X ACCEL		0073707777	00	79983186+00	1/0	*1064397E+01
623		-0213300ETO		7260246F-03	PDUT	1188887E-02
CI -ROLL	1788132E-04 CM-PITCH	- 1288244E=03	LNTAR	777714		
	TOGO LOCALIDEOL	1173282E+00				

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	54545315555	7	*3828938E+04	GAM A	6825464E+00	HDG A	. 93509575402
	-3150037E+00	A PUAA	3583286E+02	LONG	.2322097E+03	SIGMAA	5635574F+02
'	6235718F+02		22204025402	YAWE	.5875161E+02	PTCH F	.2001457E+02
	+3868352E+04		6755018E+03	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	42423845+04	3	.4561184E+02
		AL PL		-1	- 4330287E+02	SIGMAR	5635253E+02
	0.0	SIG-VA	.8501946E-02	SI 6-6A	10721485-02	ONT MIN	4015965E+02
	*3307587E+01		*2066376E-04	SIG-10	2347103E-04	OTC CA	*1277062E-03
	2946880F-03		,1251518E-02	SIG-YE	-1163366F-02	STG-DE	-1103366-02
	*1221218E-02	S16-U	.9456094E-02	SI6-V	-8757869F-02	716-U	01 770 EOC 00
	41055635 62 41055635 62	Σ	-1195405E+02	PINE	*4635681F+02	TEMP	2404500F - 02
	50-350-03 50-05-03	1	*4541540E+04	۵ 0	*4635518F+04	PATAG	82776975
	1277261 F+00		3675767E-02	~	*3042416F+00	X ACCE	- 0503040F+U4
İ	1.38 / 65	ZACCEL	1489310F+02	CXB	6843562E-01	CVB	1/20612F 00
	==1138649E+01	13	*8765144E+00	CD	8204665F+00	07	104 90 31 34 - 04
1	1501020E-04	CM-PITCH	.1603289E-03	CN-YAW	1752428F-04	POUT	27044495 01
	10-35-01-67-01	X DO	•3439023E-C2				
	1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6						
1	5162670E+04	VEL A	*3341595E+04	GAM A	1160206E+01	HDG A	87685725103
	22023875102		*3581575E+02	LONG	+2341942E+03	SIGMAA	- 5225477C+02
1		AL PHAA	-3805167E+02	YAW E	.5570931E+02	PTCH F	2047274E+02
1			-1431502E+03	٨	-3746947E+04	3	-4746040E±02
	20,500,855,30	SAM K	1150417E+01	HDG R	*8756499E+02	SIGMAP	5325101E+02
	0.	AL PHAR	-3794910F+02	U-WIND	8241388F+01	ONIM-V	2811641E+02
	-2775549F+01	016-VA	1289604E-01	SIG-6A	*2169615E-03	SIG-HA	-1609266F-03
i	-7181083E-03	CTCAA	*103/8/1E=04	216-10	-1781589E-04	SIG-5A	.9838822F-03
	.9950657E-03	CTG-11	107/05/E-03	SIG-YE	•9838822E-03	SIG-PE	.7181083F-03
	.1028241F+02	MACH P	1024090E-01	516-V	-1301106E-01	SIG-W	-1461160F-01
	.8931783E-03	1	. 4986726E±02	-(6740175E+02	TEMP	.2628877E+03
•	8611572E-01	1	58058435-01	¥ 0	• 50/1935E+04	PSTAG	.9206532E+04
1	-,1046335E-01	Z ACCFL	1542850E+02	۵× و	2300585E+00	X ACCEL	9990879E+00
•	1129867E+01	73	.8491362F+00	000	6284200E-01	CYB	7662520E-03
•	3011413E-05	CM-PITCH	.9968259E-04	CNIVAN	- 28282275-04	070	•1134806E+01
	.9482984E-02	ROOT	4978859E-02	n-1-1		7001	5091932E-02

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. 2856618E+04 GAM A1117846E+01 HDG. A .3595654E+02 LDNG	***	法	***	***	***	建二苯甲基苯甲基苯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	****	******
1,650000E+04 VEL 1,85561BE+04 GAM 1,11776E+01 MDG A							and a second sec	
E4872093E+05 LATD359564E+02 LNNG2336099E+03 SIGMA	1 X F	1430000E+04		.2856618E+04		1117846E+01	HDG A	.8058119E+0Z
A -2867620E+30 ALPHAA -3395810E+02 VAM -3592499999999999999999999999999999999999	1.00	4822003E+05	IATD	.3595654E+02	FONG	.2358999E+03	SIGMAA	3528266E+02
Colored Colo	7 7 7	0042024200	VVHOIV	.3395810E+02		5932499E+02	PICH E	.2593273E+02
10	1	2000,4465402		.4663682F+03		.3226039E+04	*	.5572932E+02
R	(70.1564.000		11060505+01	Į.	8069453E+02	SIGMAR	3528519E+02
	<u>⊷</u> ا	28847315+04	041014	2401466E+02	CNIDI	.1027697E+01	ONIM-V	2866762F+02
135.0000E+34 VEL 136.00E+04 SIG-IN 1107729E-04 SIG-PE 156.05816E-03 SIG-PE 136.05162E-03 SIG-PE 105.0516.05E-03 SIG-PE 105.0516.05E-03 SIG-PE 105.0516.05E-03 SIG-PE 105.0520E-03 SIG-PE 105.0520E-03 SIG-NE	T A K	- 1	47 040	16.01 20 25-6.1	V16−64	.3387630E-03	SIG-HA	.2023143E-03
### -20234348F-03 SIG-A	ONI M-	4	STO LA	1186200E-04	016-10	11077295-04	S I G-S A	.9053176E-03
A	1 6-H	* 2023038E+01	A 1-916	82616205	71 G-YF	90531765-03	SIG-PE	.7563698E-03
## ## ## ## ## ## ## ## ## ## ## ## ##	I G-BA	. 7253698F=03	515=AA	10-14-10-1	0.10	14151745-01	M-915	.1979828E-01
A A A A A A A A A A	16-RE	.8261622E-03	_	1191266-01	21010	10410775	OEUL	2625421E+03
1382660E-02 0 A	- [.8795871E+Jl	i	. 8882437E+C1	- L L L L	E 3E 3 3 3 1 E 1 O E	DOTAC	10427735+05
CCEL4104694E-01 0 .5796406-02 R6230497E-01 CYB 4104694E-01 7 ACCEL1953921E-02 CXB6480149E-01 CYB 450868236E+00 1	UH	.1382600E-02	- 1	• 5641189E+04	1	201021112	A 100 A >	- 1003018E+01
4104694E-01 7 ACCEL1482831E+02 CXB5486149E-01 CXB588923E+00 L/D59588923E+00 CL -5759189E+04 CD -5894234E+00 L/D -1320997E-03 CM-YAW -4107854E-03 PDDIT1320997E-01 RDDT51320997E-01 RDDT51320997E-01 RDDT5234279E+04 GAM A1970409E+01 HDG A1970409E+01 HDG A1970409E+01 HDG A1970409E+01 HDG A1970409E+01 HDG A1970409E+01 HDG B1970409E+02 V WIND1730795E+02 GAM R1952261E+01 HDG R883456E+03 SIG-NA1952261E+01 HDG R883456E+03 SIG-NA1952261E+01 HDG R883456E+03 SIG-NA1952261E+01 HDG R883456E+03 SIG-NA1730795E+00 GAM R1952261E+01 HDG R883456E+02 SIG-NA1730795E+03 SIG-NA1952261E+01 HDG R883456E+02 SIG-NA175046E-03 SIG-NA175046E-03 SIG-NA175046E-03 SIG-NA175046E-03 SIG-NA175046E-03 SIG-NA175046E-03 SIG-NA175046E-03 SIG-NA175046E-03 SIG-NA175046E-03 SIG-NA175046E-03 SIG-NA1750460E+00 CL1730706E+00 CL1730706E+00 CL1730706E-03 CM-PITCH1279826E-03 CM-PITCH127	•	.3955697E+01	c	.5796050E-02	8	• 251.3099 E + 01	AAAAA	10. 10. 10. 10. 10. 10. 10. 10. 10. 10.
-,9588923E+00 CL	14774 7	4104694F-01		1482831E+02	CXB	6486149E-01	CYB	7654322E-UZ
1520997E-03 CM-PITCH1953921E-02 CN-YAW .4107854E-03 PDDT,4872962E-01 RDDT .7595788E-01,4872962E-01 RDDT .7595788E-01,4872962E-01 RDDT .7595788E-01,4872962E-01 RDDT .7595788E-01,4872962E-01 RDDT .7595788E-01,4584430E+05 LAID .3609019E+02 LDNG .2373582E+03 SIGMAA .4584430E+02 LDNG .756589E+03 SIGMAA .7565899E+04 CAM R,1952261E+01 HDG R .8994937E+02 SIGMAR .755899E+04 CAM R,1952261E+01 HDG R .9894937E+02 SIGMAR .755899E+04 CAM R,195393E-02 SIG-A .2591315E-03 SIG-A .5539175E-03 SIG-A .5371152E-03 SIG-A .55791315E-03 SIG-A .5579175E-03 SIG-A .5371152E-03 SIG-A .5704400E+05 SIG-M .7722946E+00 CAM R .7521494E+02 .1414532E+03 SIG-M .7722946E+00 CAM R .755804E+04 CAM R .7521804E+02 CAM R .7521804E+01 CAM R .756868E+04 CAM R .7521804E+01 CAM R .756868E+04 CAM R .756868E+04 CAM R .756868E+04 CAM R .756868E+04 CAM R .756868E+04 CAM R .756868E+04 CAM R .756868E+04 CAM R .756868E+04 CAM R .756868E+04 CAM R .756868E+04 CAM R .756868E+04 CAM R .756868E+04 CAM R .756868E+04 CAM R .756868E+04 CAM R .756868E+04 CAM R .7568668E+04	7 7 0	05880235+00	!	.7591189F+0G	CD	.5894234E+00	97	12879015+01
-,4872962E-01 RDNT ,7595788E-01 -,1650000E+34 VEL A ,2434279E+04 GAM A -,1970409E+01 HDG A ,458430E+35 1ATD ,3609019E+02 IDNG ,2372582E+03 SIGMAA ,971714E-02 ILTD ,4502340E+02 VAW E ,1134372E+03 PICH E ,2458430E+02 U ,4502340E+02 VAW E ,2834051E+04 W ,2834051E+04 W ,2456899E+04 GAM R ,3326405E+02 U ,WIND ,09376+02 SIGMAR ,3326405E+02 U ,WIND ,1053814E+02 SIGMAR ,3326405E+02 SIG-6A ,2591315E-03 SIG-NA ,9715393E-02 SIG-NA ,75214946+031 MACH R ,7591396E+01 PINF ,1414532E+03 TEMP ,75214948E+00 Q ,1551804E-01 PINF ,72328547E+00 X ACCEL ,41943376E-01 Z ACCEL ,7772948E+00 Q ,7268668E+00 CL ,726868E+00 CL ,	1104-1	-1320997E-03	CM-PITCH	1953921E-02	CN-YAW		PDDI	194769E+00
1650000E+194 VEL A .2434279E+04 GAM A 1970409E+01 HDG A .4584430E+05 LATD .3609019E+02 LNNG .237332E+03 SIGMAA .4584430E+05 LATD .3609019E+02 LNNG .24584430E+03 PTCH E .4872852E+02 LN	1000	4872962E-01	RDAT	w I				
1650000E+34 Vel A 1650000E+34 Vel A 1650000E+34 Vel A 1650000E+34 Vel A 1650000E+34 Vel A 1650000E+3582E+03 SIGMAA 16502340E+02 Val E 1134372E+03 SIGMAR 165085E+02 Val E 165085E+02 Val E 165085E+02 Val E 165085E+02 Val E 1650895E+02 Val E 1650895E+02 Val E 1650895E+02 Val E 1650895E+04 Val E 1650895E+04 Val E 1650895E+04 Val E 1650895E+04 Val E 1650895E+04 Val E				70.40040.40.40		-10704098+01	HDG A	.8918781E+02
A 9471714E-02 AIPHAA .3311180E+02 YAW E .1134372E+03 PICH E . 4584430E+05 AIPHAA .3311180E+02 YAW E .2834051E+04 W .2834051E+04 W .2834051E+04 W .2834051E+04 W .2834051E+04 W .325605E+02 U-WIND .1053814E+02 SIGMAR .3326605E+02 U-WIND .1053814E+02 SIGMAR .3326605E+02 U-WIND .1053814E+02 SIGMAR .3326605E+02 U-WIND .1053814E+02 SIGMAR .3326605E+02 SIG-GA .2591315E-03 SIG-PE .25939175E-03 SIG-A .84707074E-05 SIG-YE .6241034E-05 SIG-PE .85731152E-03 SIG-YE .6241034E-05 SIG-W .8772948E+00 SIG-W .7551396E+01 PINF .1414532E+03 TEMP .7521494E+01 ACCEL .1397008E+02 CXB .5704400E+04 PSTAG .1414537E+00 X ACCEL .1397008E+02 CXB .5501733E+00 L/D .1093765E+00 CL .7268668E+00 CD .5501733E+00 L/D .1134370E-03 CM-PITCY .1279826E-03 CN-YAW .6008090E-03 PDDT	TIME	*1650000E+J4		- C4-34-C4-24	1	22725025403	CICNAA	4454736F+02
A .9471714E-02 AIPAAA .331118UE+02 IAW E .2834051E+04 W .283240E+02 V .2834051E+04 W .2852899E+04 GAM R .3325605E+02 U .4502340E+02 V .8894937E+02 SIGMAR .2456899E+04 GAM R .3325605E+02 U-WIND .1053814E+02 V-WIND .2456899E+04 GAM R .3325605E+02 U-WIND .1053814E+02 V-WIND .3325605E+02 SIG-GA .2591315E-03 SIG-PE .8410315E-03 SIG-PE .85239175E-03 SIG-PE .85239175E-03 SIG-PE .85239175E-03 SIG-PE .85237152E-03 SIG-PE .85237152E-03 SIG-PE .85237152E-03 SIG-PE .85237152E-03 SIG-PE .85237152E-03 SIG-PE .8708786E-02 SIG-V .9788298E-02 SIG-W .8772948E+00 Q .7591396E+01 R .8772948E+00 Q .7591396E+01 R .8772948E+00 Q .7591396E+01 R .8772948E+00 Q .7772948E+00 VB .87772948E+00 Q .777294E-01 CVB .87772948E+00 Q .777294E-01 CVB .87772948E+00 Q .777294E-01 CVB .87772948E+00 CL .113779826E-03 CN-YAW .6008090E-03 PDDIT .1134370E-03 CM-PITCH .11379826E-03 CN-YAW .6008090E-03 PDDIT	ALIDE	4584430E+05	LATD	3009019191		112625000	DICH	2112360F+02
E .4872852E+02 U .4502340E+02 V .2534027E+02 SIGMAR .2456899E+04 GAM R .3326605E+01 HDG R .8894937E+02 SIGMAR R .3326605E+02 U-WIND1053814E+02 V-WIND1730795E+00 ALPHAR .3326605E+02 U-WIND1053814E+02 V-WIND1421810E+01 SIG-VA .9715393E+02 SIG-GA .2591315E-03 SIG-PE1421810E+01 SIG-AA .9715393E+02 SIG-N .7666687E-05 SIG-PE1421810E+01 SIG-AA .5371152E-03 SIG-V9788298E-02 SIG-W18708016E+01 MACH R .7591396E+01 PINF1414532E+03 TEMP172948E+00 01521804E-01 R1376400E-01 CYB1397008E+02 CXB1376400E-01 CYB1397008E+02 CXB1376400E-01 CYB1397008E+02 CXB1376400E-03 PDDI1134370E-03 CM-PITCH1279826E-03 CN-YAM6008090E-03 PDDI		.9471714E-02	ALPAAA	-3311180F+0Z	-	202124312102		82408445+02
R1730795E+04 GAM R1952261E+01 HDG R .8834493/F+02 SIGNAR R1730795E+00 ALPHAR .3326605E+02 U-WIND1053814E+02 V-WIND1730795E+00 ALPHAR .3226605E+02 U-WIND1053814E+02 V-WIND1730795E+00 A .9715393E-02 SIG-MA .8407074E-05 SIG-MA .76666A7E-05 SIG-MA .8708786E-02 SIG-V .9788298E-02 SIG-W .8708786E-02 SIG-V .9788298E-02 SIG-W .7521494E+01 MACH R .7591396E+01 PINF .1414532E+03 TEMP .7521494E+01 A .5704400E+01 R .5704400E+04 PSTAG .1772948E+00 0 .1521804E-01 R2328547E+00 X ACCEL4194337E-01 Z ACCEL1397008E+02 CXB6376400E-01 CXB69093765E+00 CL .1279826E-03 CN-YAW .6008090E-03 PDDT .		4872852E+02	- 1	.4502340E+02	- 1	2834051E+04	N V L V	20 1 20 00 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0
R1730795E+00 ALPHAR .3326605E+02 U-WIND1053814E+02 V-WIND ADDITECTOR	OΥ	.2456899E+04	- 1	1952261E+01	HDG K	·884443 (F+0C	SIGNAR	CO + 3 7 0 7 7 7 C C
4D 0. SIG-VA .9715393E-02 SIG-GA .2591315E-03 SIG-HA .1421810E+01 SIG-LA .8407074E-05 SIG-LN .766667E-05 SIG-SA .5237135E-03 SIG-NE .766667E-05 SIG-NE .76239175E-03 SIG-NE .76239175E-03 SIG-NE .76239175E-03 SIG-NE .76239175E-03 SIG-NE .76239175E-03 SIG-NE .7621396E+01 PINF .1414532E+03 TEMP .75214946+01 MACH R .7591396E+01 PINF .1414532E+03 TEMP .7772948E+00 0 .1521804E-01 R .5704400E+04 PSTAG .7772948E+00 0 .1521804E-01 R .5704400E-01 CYB .64194397E-01 Z ACCEL .1397008E+02 CXB .6376400E-01 CYB .76993765E+00 CL .7268668E+00 CD .5501783E+00 L/D .7268668E+00 CD .5501783E+00 L/D .7268668E+00 CD .7591783E+00 L/D .7268668E+00 CD .7608090E-03 PDDT			ALPHAR	.3326605E+02	QNIM-D	1053814E+0Z		70.120.40477.
1421810E+01 STG-LA	CNLILA		SIG-VA	.9715393E-02	SIG-GA	•2591315E-03	1	50-3//63/10
3A .5239175E-03 SIG-AA .5371152E-03 SIG-VE .6241034E-03 SIG-VE 2E .5371152E-03 SIG-U .8708786E-02 SIG-V .9788298E-02 SIG-W A .7521494E+01 MACH .7591396E+01 PINF .1414532E+03 TEMP A .7521494E+01 MACH .5704400E+04 PSTAG 7772948E+00 0 .1521804E-01 R 2328547E+00 XACCEL 9093765E+00 CL .1397008E+02 CXB 5376400E-01 CYB 9093765E+00 CL .7268666E+00 CD .5501783E+00 L/D 194376E-03 CM-PITCH 1279826E-03 CN-YAW .6008090E-03 PDDI	71010	1 '	STG-LA	.8407074E-05	SI 6-1 n	.76666A7E-05	- 1	• 6241034E=03
A .5371152E-03 SIG-U .8708786E-02 SIG-V .9788298E-02 SIG-W A .7521494E+01 MACH R .7591396E+01 PINF .1414532E+03 TEMP A .1890016F-02 0 A .5599845F+04 0 R .5704400F+04 PSTAG 7772948E+00 0 A .1521804E-01 R 2328547E+00 X ACCEL 7772948E+00 0 CL .1397008E+02 CXB 5376400E-01 CYB <	OT C-BA	52301755-03	SIG-AA	.53711526-03	SIG-YE	.6241034E-03	1	• 52391 (5E-03
A .75214946+01 MACH R .7591396E+01 PINF .1414532E+03 TEMP A .75214946+01 MACH R .7591396E+01 DINF .5704400E+04 PSTAG .1890016F-02 0 A .5599845F+04 0 R .5704400E+04 PSTAG 7772948E+00 0 .1521804E-01 R2328547E+00 X ACCEL 4194397E-01 Z ACCEL .1139700BE+02 CXB6376400E-01 CYB 9093765E+00 CL .7268666E+C0 CD .5501783E+00 L/D 9093765E+03 CM-PITCH1279826E-03 CN-YAW .6008090E-03 P0DI	0 0 TO	63711695-03	0.10-11	8708786F-02	ST6-V	.9788298E-02	- [.1298211E-01
** * 1890016F-92 0 A	216-XE	7521707577		. 7591386F+01	PINE	.1414532E+03	- 1	.2607262E+03
CCEL4194397E-01 Z ACCEL1397008E+02 CXB5328547E+00 X ACCEL4194397E-01 Z ACCEL1397008E+02 CXB5376400E-01 CXB9093765E+00 CL .7268668E+00 CD .5501783E+00 L/D ROLL .1134370E-03 CM-PITCH1279826E-03 CM-YAW .6008090E-03 PODT		10000 t		5500845F+04	0	.5704400E+04	PSTAG	.1036892F+05
CCEL4194397E-01 Z ACCEL1397008E+02 CXB5376400E-01 CYB9093765E+00 CL .7268668E+00 CD .5501783E+00 L/D .800LL .1134370E-03 CM-PITCH1279826E-03 CN-YAW .6008090E-03 PDDI	N L	373307611	1	15218046-01	~	2328547E+00		9795593E+00
ROLL .1134370E-03 CM-PITCY1279826E-03 CN-YAW .6008090E-03 PDDT	į	10-16-67)) 1 · ·		- 1207008F+02	S X B		CYB	2730325E-02
ROLL .1134370E-03 CM-PITCY1279826E-03 CN-YAW .6008090E-03 PDDT	YALSEL	0003345000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	72686685+00	2	•	1/0	.1321148E+01
11043 (VE-U3 CH-11)	628	1191016		- 1270826E-03	MAXINO	. 6008090E-03	POOT	.2090522E+00
	בר - אחרר	20124211		12245025+00				

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			The state of the s				
TIME	.1700000E+04	VEL A	.2052220E+04	A M A C	2357645		
AL TDE	•4178574E+35	LATD	- 3601 7635402		220 5027 5 502		*1000689E+03
BETA A	2266630E-02	ALPHAA	28200275+02	7 7 7	12007 (DE+U3		.4563637E+02
ROLL E	.4838035F+02	=	- 24210105+02		*1208*29E +03		*1715528E+02
VEL R	-2049884E+04	O W V	222402405	- 1	•2415121E+04	>	.8440151E+02
RETA D	14,004,676,01	2 1 10 1	2335939E+01	HUG R	•1001142E+03	SIGMAR	· 4563452F+02
- 4	10-3/6464410	ALVYAK	*2825284E+02	O-WIND	.4700704E+01	CNIM-A	1711962E+02
7 1 2 2 3	٦	>16-VA	.3923034E-02	SIG-6A	.1616051E-03	STG-HA	14078315-03
H-910	•1137884E+01	SIG-LA	.6212247E-05	SI6-LD	75944115-05	0.1C=0.4	103000
AR-915	.3303088F-03	SIG-AA	-9415691E-03	SIG-YF	10740401	010	2202000
SIG-RE	.9416691E-03	0-918	.6053462F-02	V16-V	28404405	11010	A 33U 3UBBE - 03
MACH A	.6408190E+01	MACH R	*6463346F+01	DINE	20-26-26-26-26-26-26-26-26-26-26-26-26-26-	N-910	-0962101E-02
RHO	.3278268F-02		. 4003297E+04		• C + U C 32 C F + U 3	LEMP	.2552874E+03
۵	11463025400		*040330/E+U4	X 3	• 7022735E+04	PSTAG	*1281322E+05
Y ACCEI	7004 3205 65	1	*8088352E-01	2	*1054024E+00	X ACCFL	1241695E+01
1	- (000 / 19 E-0 /	Z ACCEL	1421344E+02	CXB	6548283F-01	CYB	41147705-03
97	7495689E+00	7	•6289391E+00	ap	4130099E+00	0/-	16320101.01
בו -גמור	-4009571E-05	CM-PTICH	2263975F-03	CNITAL	7077707E-0E	2004	1322814E±01
DOUL	-,2895726E-01	RDUT	1616991E-02			- FULL	4/4636275-02
				44.			
TIME	.1750000E+04	VEL A	.1697893E+04	GAM A	2821447EAN1	* 30D	
AL TDE	3759216E+05	LATO	.3577798E+02	IONG	22050325403	0100	*11384/0E+03
	-1112239E+00	AL PHAA	.2414230E+02	YAVE	12110405402	2 1010	4524455E+02
ROLL E	.4700832E+32	3	6924363E+03		10000000	- HT :	-1412050E+02
VEL R	.1720941E+04	GAM R	2783630E+01	0 301	1122555		*8357648E+02
BETA R	-2004807F-01	ALPHAR	24180545402	A PART OF	•113732E+03	SIGMAR	*4524898F+02
N-MIND	0.	015-VA	202020777	THE PAIN	+0818748E+01	V-KIND	2221306E+02
SIG-H	-9498468E+OO	0.TC=1.A	20 7050055	Au-016	.1208887E-03	SIG-HA	.1347690E-03
STG-BA	30834475-02	010-01	20,0,0,0	1 - 9 T C	-6658071E-05	SIG-5A	-1018315F-02
CTC-DE	7042447	310-89	• (80340 (E-03	SIG-YE	.1018315E-02	S16-PE	43983447F-03
MACE	62044466	=	*4741980F-02	SIG-V	.4329533E-02	SI6-W	-4552805E-02
	•2304404E+UI	MACH K	•5457560E+01	PINF	* 4216554E+03	TEMP	24750495+03
ששע	-2434BZ0E-0Z	8 0	*8554570E+04	8	*8788395F+04	PSTAG	15025805+05
	6043086E+30		.9452486E-01	α	19105195-01	Y ACCEL	٩.
ALLEL	1441910E-01	Z ACCEI	1410968F+02	CXB	6651881E-01		- 4130557F 03
675	5997042E+00	1	•5200431E+00	CD	30508225400		61 C635/E-03
CL -ROLL	3826381E-04	CM-PITCH	-4041957E-04	7 4 7 LV	7.53.55	2002	*1099586E+01

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HTMU	18000005+34	VEI A	.1374665E+04	GAM A	1924123E+01	HDG A	.1280713E+03
AL TOE		ATD	.3541885E+02	LONG	.2403208E+03	SIGMAA	.6201605E+01
ALIUE		ANDIA	2052351E+02	YAW F	1304919F+03	PICH E	-1846113E+02
A 4 1 2 0			8619027F+03	۸	.1474601E+04	74	4615571E+02
0		O W Y	1899036F+01	HDG R	.1282548E+03	SIGMAR	.6195451E+01
VEL K		OVEGIV	2047877E+C2	ONIM-D	.1470471E+02	V-WIND	1154480E+02
BELA K	44474045-71	STG-VA	75681055-02	816-6A	-2103330E-03	SIG-HA	.1371081E-03
ON MAN	00110010111	CICLIA	4048424F-05	016-1 D	-4956532E-05	SIG-5A	.8519877E-03
716-H	İ	0 TG-AA	54504375-03	SIG-YE	8519877E-03	S 16-PE	.6372806E-03
Ale-BA	1	# W - D - C	42473795-02	016-V	-7731430F-02	SIG-W	. 4042987E-02
⊻	242943/E=U3	0 704	44002345+01	T N L	. 7140580F+03	TEMP	.2394986F+03
MACH A		TAL A	08136765+06	~	-1007457E+05	PSTAG	.1838952E+05
DH2		A 0	6003871E-01		1368876F+01	X ACCEL	-,2109375E+01
- 1	4718930E+U1	1000	12800206402	a × C	- 7806253F-01	CYB	-,1986975E-02
YACCEL		21007	. 54.0520E±00		2533286E±00	1 /D	17923455+01
CZB	1	100000	200000000000000000000000000000000000000	747	2528570F-03	Punt	.7228396E+00
OD 3.	.1483433E-01	RDOT	1072142E+00				
			10025:45404	V MV	46905746+01	HDG A	-1107772E+03
TIME		A 11.	26130345403	ONC	FU+ 3E 708076	STGMAA	3765270E+02
ш	3101192=+05		10540005402		9863238F+02	PTCH E	1069693E+02
1	162/9235+00	TAP I	2077260510		13949515+04	3	.885224E+02
ROLL E	3826909E+UZ	0 77 7	- 46530435+01	HOG. R	11145005+03	SIGMAR	- 3771042E+02
אבן א	21456404	ALDHAD	1004026F+62	ON LA-I)	.1501656E+02	N-MIND	3571428E+01
HELD K		0.16-VA	1883047F-02	816-6A	1405729F-03	SIG-HA	-1332088E-03
CALA	004301705477	0 T G = 1 A	38414316-05	SIG-10	4865148E-05	S16-5A	.9259365E-03
	30101455-03	CTG-AA	.5585352F-03	SIG-YE	.9259365E-03	STG-PE	3910145E-03
O T C D E	558525-03	01G-11	.2799085F-02	516-V	.2528642E-02	N-918	.3397906E-02
4 1.5 4 A	2526055	O HUV	3562471E+01	PINE	.1063070E+04	TEMP	.2335503E+03
A H DAG	15854025-01	1	. 9290889E+04	а О	-9441036E+04	PSTAG	1759383E+05
חש	1266665	i	.1524607E+00	04	1569878E+00	X ACCEL	2232324E+01
2004 2		7 ACCEI	1338588E+02	CXB	8718798E-01	CYB	1600984E-02
1 0	- 5228128E+30		.4634116E+00	CD	.2572638E+00	1.70	.1801309E+01
1 - 001 1	17961335-03	CM-PITCH	-,5352696E-03	CN-YAW	-,2264624F-03	PDOT	*4564756E+00
	10-3180caro -	1000	- 4300069F-01				

THE .18550005+04 VEL A .1055458E+04 GAF A4684979E+01 HDG A .109133 ALIDE A.292510E+03 ALDHAA .189489E+02 YAW E .374209E+02 PICH F .102357 BELA A.292510E+03 ALDHAA .189489E+02 YAW E .374209E+03 SIGHAA .371329E+03 SIGHAA .371329E+03 SIGHAA .371329E+03 SIGHAA .371329E+03 SIGHAA .371329E+03 SIGHAA .371329E+03 SIGHAA .37269E+03 SIGHAA .32666E+03 SIGHAA	* METBET1	* METBET1 USING LAIRSTUSE8,10/81	ATRSCUSER. 10/81		FOIOS DYNA	**************************************	****	1. AMABETH. NEO105 DYNAM. DATA
ALTON ALTESTANCE ALTO ALTESTANCE ALTON ALTESTANCE ALTON ALTESTANCE ALTON ALTESTANCE ALTON ALTESTANCE ALTON ALTESTANCE ALTON ALTESTANCE ALTON	***	****	* * *		*****	*****	****	07
TIME	10							*
LIDE	1							
Line	TIME	*1855000E+04		*1055658E+04	1	46840705401	-	
ELA	ALTDE	*3056949E+05		*3511246E+02	ľ	24004915403	CTCHAA	37,525,5.65
Coll E	J	.2982210E+00	Ŧ	-1894489F+02	X	07422005403	STORAR	3(13324E+02
ELR	1			•		12700505.00	1 H H H H	• 1023875E+02
ETA R	VEL R	•1062132E+04	G A M		t	100409501404	*	• 8622318E+02
MIND 0. 0. 0. 0. 0. 0. 0. 0	- 1	•6772474E+00		19196105+02	ILUTAD	100,000 :00	SIGMAR	3717246E+02
	GNIM-M	_		17757025-02	ON THE O	• 1000838E+0Z	ONIM-A	3344776E+01
	SIG-H	06533910E+00		2022020 DE	A9-9 C	-1748678E-03	SIG-HA	*1599177E-03
16-RE	STG-BA	82618325-16		• 3822428E=05	216-10	. 4843947E-05	SIG-5A	.1035180F-02
ACCEL29242201E+01 MACH R .272332E+02 SIG-V .2759409E+02 SIG-V .27532201E+01 MACH R .3474391E+04 PINF .113395E+04 FIERP .217592E+04 DACCEL2017505E+01 Q A .1910519E+02 R .957552E+04 DSTAG .217592E+04 DACCEL2016712E+00 CL .21307899E+02 CAS2349094E+00 A ACCEL2016712E+00 CL .21307899E+02 CAS2349094E+00 A ACCEL25016712E+00 CL .21307899E+00 CL .2471251E+00 L/D .2471271E+0 L/D .2471271E	CTC-05	#C-3550101		-6402691E-03	SIG-YE	.1035180F-02	SIG-PE	.8261833E-04
ACCEL	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• 6 + 0 2 6 4 LE - 0 3	N-918	.2731332E-02	SI 6-V	.2258409E-02	S I G-W	330066-02
ACCEL		•3473201E+01	ACH	•3474381E+01	PINF	•1133585F+04	TEMP	23262416403
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G-RE .0853089E-02 \$15-AA .6353689E-03 \$16-VE .1036688E-02 \$16-PE CH A .3374395E+01 MACH R .2671210E-02 \$16-V .2093459E-02 \$16-W CH A .3374395E+01 MACH R .3388870E+01 PTNF .1207498E+04 TEMP D .1815307E-01 QA .9621286E+64 QR .9704010E+04 PSTAG ACCEL 1038992E-01 ZACCEL 1278280E+02 CXB 3173183E+00 XACCEL B 4819834E+00 CL .4290463E+00 CD .2375681E+00 L/D -RDIL 9282720E-04 CM-PITCH .7456052E-04 CN-YAW 2340361E-04 PDDT	010-010	64646400	516-LA	-3803931E-05	S16-L0	.4811213E-05	SI 6-5A	-1036688E-02
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E F	20205155405	15	3508428E+02		.2410553E+03	SIGMAA	3994038E+02
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10	10065205406	O W V U		40G R	.1058057E+03	SIGMAR	3997917E+02
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12	0	010-VA	1744519F-02	SI 6-6A	.1700672E-03	SI6-HA	.1478125E-03
	0043644464	CT G=1 A	3784848F-05	ST6-10	.4766366E-05	SIG-5A	.1038331E-02
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NH N	10-15-100-1-1		17515855+00		3806789F+00	X ACCEL	2441454E+01
	20126216-01	7 7 7 6	- 1289056F+02	CXB	90421235-01	CYB	-1100897E-02
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100	22002875-03	MOTTO	.8835679F-04	CN-YAW	.1365458F-03	PDDT	.6687858E+00
TOGO	.1681337E-01	RDAT	.626780£E-01				
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i	-130717525+02	=	2313408E+03	Λ	.1330030E+04	*	*8561062E+UZ
10	9788001E+03	GAM P	5017781E+01	HDG R	.1037249E+03	SIGMAR	3943507E+02
	5222187E+00	1 T	.1793410E+02	ON IM-D	.7709049E+01		.1625358E+01
CAT THE	0	7 I G−VA	.1938132E-02	SIG-6A	.1703209E-03	1	•1413617E-03
TI-OTO	4203144F+00	016-1 A	-3766110E-05	SIG-LD	470E592E-05	- }	.1040062E-02
CT C - B A	10247035-03	STG- A A	-6219368E-03	SIG-YE	.1040062E-02	SIG-PE	.1024793E-03
0.10	4210248E-33	CTG-11	.2556328F-02	516-V	-2140568E-02	N-918	.3216497E-02
	22105185+71	MACH R	32202336+01	HNId	.1370333E+04	TEMP	+2299671E+03
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102						FI I
TIME	.1875000E+04 VEL A	.9520797F+03	SAM A	- 51582015101		
ALTDE	.2884197E+05 LATO	.3506350F+02	10	24115045403		•1011047F+03
BETA A	.2508144E+00 ALPHAA	17298255+02		50-11-0000		-+3936459E+02
ROLL E		-10004305+03		4 2 4 2 3 3 4 E + U Z		•8075288E+01
VEL R	.9513165F+03 GAM D	- 51424416403		•1310828F +04	A	.8559919E+02
BETA R	70.4	17/2/2/2/2/	#U6 ≭	•1016256F+03	SIGMAR	3941415E+02
		•1 (63132E+02	ON IM-D	.8313455E+01	V-WIND	.2452792E+01
71 G-H	40000E01.00	• 2214715E-02	SI G-6A	.1719386F-03	SIG-HA	-1351766F-03
CICLBA		.3748008E-05	SIG-10	. 4638003E-05	SIG-SA	10413155-02
CTCLDE		.6144548E-03	\$16-YE	*1041315F-02	SIG-PF	11517125-02
21016	N-918	.2500310E-02	SI6-V	.2340667E-02	S16-V	32318185-02
MACH A		*3135691E+01	PINE	-1460343E+04	TEMD	22010535
THX (.2220528E-01 0 A	*1006405E+05	α Ο	10047925+05	DOTAL	102075703
a	6567364E-01 0	.1630064F+00	,	- 4 20 0 8 F. C. A.		*144002/E+U2
Y ACCEL	1177710E-01 Z ACCEL	1286243F+02	CXB	- 02755335-01	CSS	2574220E+01
CZB	4634635E+00 CL	-4149206E+00	2	2363636	A S	4243566E-03
CL-ROLL	1016812E-34 CM-PTTCH	1785288E-04	- N - N - N - N - N - N - N - N - N - N	٦.	777	-1832941E+01
ODUI	.3819860F-02 RDUT	9763642F-02	N - 1 - 1 N I		FUUT	3020148E-01
TIME	*1880000E+04 VE! A	. 92572415+02	A 24 C			
AL TDE	2841133F+05 1 ATO	25055050100	4 010	23102/9E+01	HDG A	.9881726F+02
BETA A		14740515107	9	-2412097E+03	~	4116243E+02
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a	1	149/216++03	X	-1290414E+04	3	*8567987F+02
-		5321577E+01	HDG R	.9936962E+02	STGMAR	4121368F+02
CMINI	00+30E017174	•1711897E+02	U-MIND	.8462495E+01	V-WIND	3294708E+01
217.1		-2554611F-02	SIG-GA	.1749706E-03	SIG-HA	1294002E-03
010		.3730859F-05	SIG-10	4555132F-05	SIG-54	1042004E-02
A DE DA		.6070012E-03	SIG-YE	-1043096F-02	20-212	1145446-02
Z/		.2444897E-02	SIG-V	-2635978F-02	V TG-W	32682005-03
HACH A		.3050688E+01	PINE	-1556485F+04	TEMD	22626015402
RHD	.2375494E-01 0 A	-1017857E+05	α ο	1013667E+05	DOTAC	10457405
- 1	a	*1686284E+00	~	- 38330805+00	×	26.201.00
Y ACCEL			CXB	9 369 03 1 E-01	 >	- 25 720 21 C 02
877	4670583E+00 CL	*4202463E+00	CD	00+3750400		-21/07/15/07
CL-ROLL	.1024823E-J3 CM-PITCH		1 4 × 1 N C	22212100	770	.1873518E+01
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		4 4 4		340	- 54000215401	V 501	. 96451786+02
TIME	.18850C0E+34	VEL A	899/839E+03	1	27126065402	CTCMAA	- 4004589E+02
ALTDE	.2797966E+05	LATD	*3505006E+UZ	2	04077/15403	DICHE	7080386E+01
- [1392445E+00	AL PHAA	-1629169E±0Z	TABLE	1 26 26 6 40 6		84230425+02
ROLL E	4021016F+32	- 1	104022/E+U3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	E01200100719	CTOMAD	40100505+02
VEL R	.8967554E+03	GAM P	-,5518565E+01	HDG K	• 9 701 28 b E + 0 C	S LGMAR	0+300001044
BETA R	.2784124E+00	ALPHAP	.1665742E+02	CNIMI	. 8385044E+01		• 4032/33E+01
C Z L D 1 D		SIG-VA	.2923920E-02	SIG-6A	.1790720E-03	SIG-HA	.1247470E-03
71 G-H	-5863648F+00	SIG-LA	.3715111E-05	SIG-LD	.4460364E-05	SIG-5A	.1043617E-02
CIC-BA	1336603F-03	CTG-44	.5993701E-03	SIG-YE	.1043617E-02	SIG-PE	.1336603E-03
010-010	50027015	710-11	-2393866F-02	S16-V	.2992315E-02	N-9IS	.3320826E-02
.	20747755401	MACH	2966749F+01	PLA	.1659613E+04	TEMP	. 2274252E+03
A HORE	10-13-10167	1	1029091 5+05	α σ	-1022171E+05	PSTAG	.1972027E+05
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T ALLEL	. 446700E-00	7 W L L L	40150335+00	2 0	-2163694F+00	1/0	.1855639E+01
873	52084565-04	THEDITE	3218239F-03	CN-YAW	3670757E-03	PDOT	.1292538E+00
ODOT	.5657163E-01	RDOT	1311560E+00				
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TIME	• 18900C0E+04	VEL A	.5(43302E±03	JAC A	24120646403	CTCMAA	- 4093522E+02
ul	27545705+02	1 2 1 2	14120725402	AAL C	82502885+02	DICH E	.6451312E+01
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	2042636404	0 74	- 57107025+01	A COH	94687095+02	SIGMAR	-,4099151E+02
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	CC+388C07C3	C 10-1 A	3701015F-05	01-91S	.4355964E-05	SIG-SA	1043759E-02
ST C-D A	14252285-03	STS-AA	.5911604F-03	SIG-YE	.1043759E-02	SIG-PE	1425238E-03
210-04	50116065-03	216-11	2350136F-02	SIG-V	.3362756E-02	SIG-W	-3377691E-02
A 10 4 2	28078045+01	MACH	2883700F+01	UNLO	.1770612E+04	TEMP	. 2266030E+03
i	2722044F-01	1	.1040438E+05	<u>م</u>	.1030335E+05	PSTAG	.1998290E+05
01.0	3320841F+00	1	.20717445+60	~	4848593E+00	X ACCEL	2809337E+01
× * C C C	- 2663016F-01	7 ACCE!	1294833E+02	CXB	9787639E-01	CYB	1276497E-02
	4511155F+00	-	.4061661E+00	αs	.2193493E+00	1/0	.1851686E+01
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	*1895000E+04 VEL A	.8482263F+03	A M AG	5027001E+01	• 007	
	*2710882E+35 LATD	*3504371E+02	LONG	-2413528F+03	CTCMAA	- 410 (439F+02 - 40F04F3F103
	.7895937E-01 ALPHAA	1566756E+02	YAW F	.8143890F+02	DTCH F	50401005401
1	Э	3249854E+02	>	*1221116E+04	3	87740445+02
	ı	5971346F+01	HDG R	.9222012E+02	SIGMAR	40654945+02
1	* 4 6 9 1 5 0 7 E + 0 0	•1604637E+02	ON IM-D	*7846872F+01	ONI M-A	.5028925E+01
		-3649115E-02	S16-6A	-1884969E-03	SIG-HA	.1210397F-03
	15472075-03 516-1 A	3689047E-05	\$16-L0	4243879E-05	SIG-5A	.1043540F-G2
ļ		2836313E-03	SIG-YE	1043540F-02	SIG-PE	.1567307F-03
	716-0	-2317656E-02	SIG-V	-3761498E-02	816-W	.3443668E-02
	A C	*2800609E+01	PINF	*1890317E+04	TEMP	*2257927E+03
		*1049193E+05	0 R	.1037515E+05	PSTAG	-2020233F+05
1	c ·	*1968627E+00	8	3756004E+00	X ACCEI	2863478E+01
1		1266923E+02	CXB	9891655F-01	CYB	.8257961E_03
	1	-3946749E+00	go	-2134308F+00	1 / D	18491946+01
		.7218250E-04	CN-YAW	3455148F-04	POUT	- 48075045-01
	• LIBUZ/BE-UI RUNT	1488493E-01				
		And the state of t				
1		.8208328E+03	GAM A	-+6197780E+01	HDG A	-8911950F+02
		3504308E+02	UNU	2413978E+03	SIGMAA	- 4118583E+02
	•4113757E-01 ALDHAA	-1529030E+02	YANE	.7904501E+02	PTCH F	. 5210502E±01
		-4189597E+01		+1195260E+04	3	88617805+02
1		6224804E+01	HDG R	8970454E+02	STGMAR	4125000E+A2
1	•4608241€+00	+1569387E+02	U-WIND	*8350494E+01	V-WIND	-34840215+01
1		3999379E-02	SIG-6A	-1935569E-03	SIG-HA	1231093E-03
		.3679588E-05	\$16-10	.4127036E-05	SIG-SA	1043101E-02
-		.5752130E-03	SIG-YE	.1043101E-02	SIG-PF	-1654799F-03
	1-91S	-2304478E-02	S16-V	-4159165E-02	STG-W	35102505-02
		•2718402E+01	PINE	.2019905E+04	TEMP	.2249936E+03
		-1053604F+05	0 R	.1044512E+05	PSTAG	-2034499E+05
•	a ı	*1909499E+00	æ	4881295E+00	X ACCEI	- 29344335+01
1		1277531E+02	CXB	1009294F+00	CYB	14049356-02
1		*3972350E+00	CD	-2132322F+00	1.70	*1862923F+01
1		1773677E-04	CN-YAW	.2819434E-04	PDDT	.7496591 E-01
1	- DYY (190E - 0.1 KUII)	-1312144E-01				

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							CO. 7.00E. 10
TIME	.1905000E+04	VEL A	.7960709E+03	GAM A	64972965+01	HUG A	7044707404
AI TOF	.2622127E+05	LATD	.3504408E+02	LONG	.2414414E+03		41361646+02
RETA A	1935792F+00	AAHOIA	.1496275E+02	YAW E	.7675327E+02	PICH E	.4897048E+01
1	- 4125037E+02	=	-4067032F+02	>	.1167990F+04	3	.9008045E+02
0	70141105403	O M Y U	4535719F+01	HDG R	8703501E+02	SIGMAR	4142576F+02
٠,٠	20105485400	QVHQ IV	15362605+02		.8026531E+01	CNIM-A	.4242327E+01
BEIA K	٦	O TO LVA	42280845-02	016-6A	-2721075F-03	SIG-HA	.1639368E-03
	00434105048	CTC-1 A	34731515-05	016-10	-4008745E-05	SIG-SA	.1022502E-02
H=910	26200625-03	0 TC - A A	4835107E-03	STG-YE	1022502E-02	516-PF	.2570063E-03
A 8 - 9 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1		1 010	22104845-02	0.1G=V	4569506F-02	8 I G-W	.3581210E-02
χİ	9463210/6-03	0 10 17	2636967E+01	unia	-2160609F+04	TFMP	,2242059E+03
MACH A	20071111	A 6 6	10427515405	a C	10513335+05	PSTAG	. 2060272E+05
RHII	1 200,0025,01	9 0	2721757E+00	1	2087115E+00	X ACCEL	-,2997838E+01
	19353636	- 000 4 6	-12751016+02	Z K B	1021125E+00	CYB	6251276E-02
ALLEL	-1032262		20222465400	ű	21078915+00	1 70	18655355+01
	10205747	TACTAC	- 1608121E-03	コマンーズし	3166088E-02	PDUT	. 3280587E+01
00 D T	2963821E-01	RDOT	•1246632E+01				
	70130000101	100	77627015+03	CAM A	6280450F+01	HDG A	8446521E+02
10.0	25770015405	C	3504458E+02		2414835F+03	SIGMAA	1914874F+02
ALINE	- 47541085-11	VVEGIV	1501600F+02	YAWF	. 7960519E+02	PTCH E	.7931895E+01
A A D	10224265		.4717366F+C2	1	.1140500E+04	3	.8471345E+02
X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	76562705+03	Q X V U	6354131F+01	HDG R	.8493413E+02	SIGMAP	1920088E+02
<	3484712F+00	A1 PHAR		ONIM-D	.7067048E+01	V-WIND	.8379701E+01
	0 -	STG-VA	.45766095-02	SIG-GA	.2757296E-03	SIG-HA	1641093E-03
AT G-H	.5296476F+00	STG-LA	.3669558E-05	SIG-10	. 3993887E-05	SIG-5A	-9761641E-03
CT G-BA	4187051F-03	SIG-AA	.4411831E-03	SIG-YE	.9761641E-03	SIG-PE	4187051E-03
710-01	F0-31831E-03	516-11	.2321962E-02	SIG-V	.4R35931E-02	SIG-W	.3611073E-02
A HOAM	. 2584584F+01	MACH	.2554738E+01	PINF	.2309944E+04	TEMP	.2234489E+03
1	2401309E-01	1	.1079786E+05	a O	.1054992E+05	PSTAG	.2097109E+05
200	532021 AE+01	1	.1648562E+00	ď	.9609563E+00	X ACCEL	3011077E+01
12 J V X	10611745	7 ACFE	1295414E+02	CXB	-,1010264F+00	СХВ	-3560405F-02
10	446417E+00	13	.3936158E+00	CD	.2101849E+00	170	.1872712E+01
1100-10	10195046-03	FOLIG-WO	8199564F-03	CN-YAW	1415111E-03	PDOT	.2996972E+00
444							

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TIME	.1915000F+04	VEL A	.7492880E+03	SAM A	54433245401	4 247	
AL TOE	•253R960E+05	LATD	.3504977E+02	10	.24152425403	CTCMAA	00172844402
	*1407486E+00	ALPHAA	.1500141E+u2	YAWF	83540405+02	DACINA	0453/00F-00
-4	9876075E+30	7	.7247077E+02	>	111448264		7107077
VEL R	.7387908E+03	GAM R	5520905F+01	a JUH	8 62 6 7 7 5 4 6 7		• (10/82/E+02
BETA R	•5229879€+U0	T	.1508575F+02	CATU-	201312445404 40308045401	N LOMAK	- 1029049E+01
GNIM-M	0.	SIG-VA	4575728F-02	CIGECA	27236015 02	ON I MAN	• 4982794E+01
SI G-H	*5188526E+00	STG-1 A	36656355-05	016-04	370003 57 05	216-HA	•1590414E-03
SIG-8A	.5417894E-J3	STG-AA	30157705-02	10 10 10 10 10 10 10 10 10 10 10 10 10 1	63/304175-02	A 2-91 6	.9137352E-03
SIG-RE	·3915779F-03	S16-11	- 224928CE_02	21.01.0	4413/32E-03	14-91 C	₹5417894E-03
MACH A	.2504484F+01	MACH D	77-76-6776	7 6 7	•4/80038E-02	SIG-W	.3546591E-02
1	10-3078288		1075000500	┥.	*2450488E+04	TEMP	*2227991E+03
	7 300E 7 10 10 10 10 10 10 10 10 10 10 10 10 10	a c	•10/280ZE+05	w .	*1045871E+05	PSTAG	+2096810E+05
1000	-1400221E+01	- 1	•1322892E+00	8	.8166759E+00	X ACCEL	3110290E+01
ALLEL	(462(6E-31	ZACCEL	1336710E+02	CXB	1047287E+00	CYB	. 1948334F-02
1. 10.0	4200927E+00	7	*4076450E+00	gg	*2176628F+00	1/0	1872828E+01
7777	1666342E-33	CM-PITCH	2236802E-02	CN-YAW	3050893E-03	PDOT	52702855+00
X	-•5%22//YE+UU	KUUT	1349984E+00				
TIME	10200000				The state of the s		A CANADA MANAGAMAN AND AND AND AND AND AND AND AND AND A
AL TOC	#0+300000	VEL A	• 1229827E+03	GAM A	4877303E+01	HDG A	.8459103F+02
	17,00412E+U2	- [-	*3505286E+02	LDNG	•2415634E+03	SIGMAA	-1275536F+02
A	• 1643049F+00	AL PHAA	.1327916F+02	YAW E	•8736954E+02	PTCH E	-8110429E+01
٥	• 1285340E+02	- 1	•6315208E+02	٨	*1090422E+04	3	-6146950F+02
	• /132235E+03	GAM R	4944205E+01	HDG R	.8490109E+02	SIGMAR	-1272884E+02
מו שו ש	• 4803811E+00	ALPHAR	.1327628E+02	ONIM-D	•4752561E+01	CNIMIN	93003076+01
CATALA	0	SIG-VA	.4286754E-02	SIG-6A	.2624198F-03	S IG-HA	15197595-03
H-916	• 5085397E+00	SIG-LA	*3659110E-05	SIG-10	.3705235E-05	SIG-SA	8484547F-03
216-RA	• 62406595-03	SIG-AA	•3598612E-03	SIG-YE	·8484547E-03	STG-PE	42404505-03
¥	•3598612F-03	\Rightarrow	.2148523E-02	V-9 IS	•4537324F-02	S T G-W	34247175-02
MACH A	•2419424F+J1	MACH R	•2386766E+01	PINF	.2575543F+04	TEMD	22227146403
) HX 6	.4036658E-01	A 0	.1054988E+05	α σ	.1026699F+05	PSTAG	2064305405
	.1800001E+01	0	8830261E-01	œ	.7423437F+00	X ACCE	- 21274005401
ACCEL	8936317F-01	Z ACCEL	-,1153677E+02	CXB	10772195+00	2 0	10.30.00.00.
673	3950862E+U0	35	-3607526E+00	00	19582116+00	27	1042254
כן –מסור	•3517249E-04	CM-PITCH	1613493F-02	2 × × × C	2010101		10+30/334010
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TIME	1925000E+04	VE! A	.6988308E+03	GAM A	4866468E+01	HDG A	.8596263E+02
AI TOF	.2476502F+05	LATO	.3505532E+02	5	.2416015E+03	SIGMAA	.2209985E+02
AETA A	1226852F+00	AIPHAA	.1271725E+02	YAW E	.9085996E+02	PTCH E	.6874524E+01
1	2217250F+02		.4530756E+02	^	.1068419E+04	3	.5928447E+02
] ≃	-6898314F+03	GAM R	4930111E+01	4DG R	.8622015E+02	SIGMAR	. 2207787E+02
1 -	13898615+00	-	.1267974E+02	ONIM-O	.3717687E+01	ONIMO	.8799324E+01
- Z	0	SIG-VA	.3952286E-02	SIG-6A	.2498975E-03	SIG-HA	.1450198E-03
V1 G-H	.4987437F+00	SIG-LA	.3649734E-05	SI6-L0	.36377985-05	SIG-SA	.8009624E-03
CIG-RA	-6719377F-03	CIG-AA	.3281488E-03	SIG-YE	.8009624E-03	SIG-PE	•6719377E-03
716-PF	- 3281488F-U3	516-0	-2049865E-02	816-V	.4185652E-02	N-918	.3278915E-02
A I CAM	23410015+01	MACH R	.2310944E+01	un I a	.2695886E+04	TEMP	.2217990E+03
1	4234277E-01	i	.1033935F+05	α 3	.1007477E+05	PSTAG	.2032269E+05
0	20587786+31	1	.2053288F+00		.7279533E+00	X ACCEL	3165315E+01
1300 ×	48484015-01	7 ACCE!	1098842F+02	CXB	1108756F+00	>	.1698383F-02
1 1	- 3840050E+30	l	3510553E+00	Co	-1928898F+00	1 / D	.1819988E+0
100-10	. 497943BE-04	PULL DITCH	.4410963E-03	CN-YAW	1377858E-03	POOT	1933406E+00
9 00T	.1061944E+00		5141869E-01				
T 1 1 1	1930000E+04	VEI A	. 674546F+03	A M AS	49801705+01	HDG A	.8800221E+02
100	24470725405	. c	3505682E+02	ی ا	.2416383E+03	SIGMAA	.2873712F+02
DETA A	26508685400	VVMGIV	.1322959E+02	YAW F	-9413362F+02	PTCH E	6751745E+01
3 1 100	2886334F+02		.2046962F+02	l	.1045657E+04		. 5855803E+02
α	. 6659422F+03	A MAR	5044683E+01	HDG R	. 8823172E+02	SIGMAR	.2871742E+02
1 <	49748865+50	AL DHAP	.1317627E+02	U-WIND	.2956986E+01	ONIM-V	.8544858E+01
C21313	0	SIG-VA	.3538297E-02	SIG-6A	.2351848E-03	SIG-HA	.1383510E-03
7 T G-H	48945435+00	STG-1 A	.3637432F-US	S16-10	3587045F-05	S16-5A	.7688876E-03
STG-BA	.7026915E-03	SIG-AA	.2905641E-03	SIG-YE	.7688876E-03	SIG-PE	.7026915E-03
01 G-0 F	29056415-03	616-11	-1955870E-02	S16-V	3748153E-02	N-9IS	.3111913E-02
MACE A	.2262052F+01	MACH	.2233197E+01	PINF	.2820C48E+04	TEMP	.2213457E+03
RHU	44383615-01	1	.1009756E+05	8 0	.9841596E+04	PSTAG	*1994219E+05
٥	14285975+30	ĺ	.2460293E+00	8	.3878868E+00	X ACCEL	-,3138343E+01
Y ACCEI	1766693F-01	7 ACCFI	-,1177346E+02	CXB	1125528E+00	CYB	-,6336027E-03
	4222407E+00		. 3852767F+00	CD	.2061970E+00	1.70	.1868488E+01
1108-13	2438185E-03	CM-PITCH	9497604E-03	CN-YAW	.2010803E-03	PDOT	6808243E+00
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TIME	***	***************************************	****	***	****	****	***
1935000E+04 VEL A	108						
10	TIME	147	.6512805E±02	-	62000. ECANT		
A	AL TDE	LATD	-3505716F+02	J J J	-2474447ETUT	CICMAA	20250075
E 4267143E+01 V .102231E+04 V P 5423159E+C3 dH 4267143F+O1 HOR 2.9038201E+02 IGAAR ND 0 1540A07E+O3 1540A07E+O3 1640A 1540A07E+O3 1640A ND 0 316-VA 314908E+O2 SIG-AA 2214157E-O3 SIG-NA H .4800335E+O3 SIG-AA .3220417E-O3 SIG-AC .2214157E-O3 SIG-AC H .4800355E+O3 SIG-AC .3220417E-O3 SIG-AC .3216A6AE-O3 SIG-AC R .2926A17E-O3 SIG-AC .3250A6AE-O3 SIG-AC .3216A6AE-O3 SIG-AC A .463125E-O3 A .986A57E+O3 R .3216A6AE-O3 SIG-AC A .465A27E-O3 A .986A57E+O3 R .3046A9E+O3 SIG-AC A .416A57E-O3 CI .320402E+O3 CIC .318430BE+O3 CIC A .416A57E-O3 CIC .32040AE-O3 CIC .318430BE+O3	BETA A	İ	.1166624F+02	YAW F	.9560236F+02	PTCHE	50336075±02
N. 0. 4.428159E+63			- 4	٨	-1022581E+04	7	- 600545E+02
N. 1824070E+00 AlPHAP 1162367E+02 U-WIND 2453264E+01 V-WIND NID 0.	<u>۵</u>	GAM	5360807E+01	ı	.9038201E+02	SIGMAR	28337635402
NB	BETA R	*3324070E+00	•1162357E+02	U-WIND	.2453264E+01	CNIM->	-862250E+01
1.000000000000000000000000000000000000	CNIM-M		.3149098F-02	SIG-6A	.2214157F-03	SIG-HA	.1328989F-03
## ## ## ### ### #####################	H-913	ļ	.3622094E-05	S16-LD	.3550092E-05	SIG-SA	.7734546E-03
A	516-BA	l	.2926171E-03	SIG-YE	-7734546E-03	SIG-PE	-6932555E-03
A .21865ATE+01 MACH R .2157BATE+01 PINF .2949639E+04 TEMP .4651551E-01 0 A .9846455E+04 0 R .9610385E+04 PYIAG .7387595E+00 0 -149645E+00 0 R .5074139E+00 CY ACCEL .4165427E-01 Z ACCEL .1004198E+02 CXB .5074139E+00 CY ACCEL .33842405E+00 CM .3364108E+00 CY ACCEL .1004198E+02 CXB .1184309E+00 CY ACCEL .1004198E+00 CD .1904929E+00 CY ACCEL .120845E-01 RDIT .120845E-01 CM .44192608E+00 CM .1904929E+00 L/D .1004929E+00 CY ACCEL .2384152E+02 LAID .350547E+02 LING .2417680E+04 PDIT .284941026E+02 RDIT .350547E+02 LING .2417680E+03 SIGMA .286920E+00 ALPHAR .110477E+02 U-WIND .2192830E+02 SIGMA .2858946E-03 SIG-VA .2858946E-03 SIG-VA .2858946E-03 SIG-AA .2858946E-	SIG-RE		.1879523E-02	S16-V	-3334868E-02	STG-W	. 2954558F-02
### ### ##############################	_	MACH	.2157787F+01	PINE	-2949638E+04	TEMP	.2209063E+03
CEL	RHO	O	*9868455E+04	9 0	-9610385F+04	PSTAG	10588245405
CEL			1412657E+00	8	-5074139F+00	X ACCE	- 322741 KEAN1
3684705E+00 CL	Y ACCEL	7	1004198E+02	CXB		Y B	15284205-02
1940000E+04 CM-DITCH	CZB		.3369108F+00	CD	1904979E+00	0/	17686265401
**19494610E-01 RDDT1208453E-01 **19490000E+04 VEL A .6311429E+03 GAM A6054046E+01 HDG A .2336152E+05 LATD .3505647E+02 LDNG .2417082E+03 SIGMAA A .2869206E+00 ALPHAA .1108523E+02 YAW E .9734706E+02 PICH E .2904955E+02 U 1000621E+04 W 1000621E-04 W 1000621E-05 W 1000621E-05 W 1000621E-05 W 1000621E-05 W 1000621E-05 W 1000621E-05 W 1000621E-05 W 1000621E-05 W 1000621E-05 W 1000621E-05 W .	1708-13		ļ	CN-YAW		POUT	12011705+00
1940000E+04 VEL A	400T		1208453E-01				70.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2
E .2336152E+75 IATD .3505647E+02 INNG .2417082E+03 SIGMAA .2869206E+02 ALDHAA .1108523E+02 YAW E .9734706E+02 PICH E .2934955E+92 U .2.2643260E+02 V .1000621E+04 W .1000621E+04 W .2643260E+02 U .2934955E+02 U .2.2643260E+02 V .1000621E+04 W .282463E+01 HDG R .9244894E+02 SIGMAR .28241252E+00 ALDHAR .1104777E+02 U-WIND .2192850E+01 V-WIND .2192850E+01 V-WIND .2192850E+01 V-WIND .2192850E+01 V-WIND .2192850E+01 V-WIND .2192850E+01 V-WIND .2192850E+01 V-WIND .2192850E+01 V-WIND .282462E+02 SIG-MA .2858946E-03 SIG-MA .48693295E-01 SIG-MA .28594602E-03 SIG-MA .48822826E-04 PDOT .3859173E+00 IND .38828282829E-01 RPUT .1978999E-01 SIG-MA .4889275E-02 SIG-MA .48892829E-01 RPUT .1978999E-01							
E .23361525E+35 1ATD .3535647E+02 1NNG .2417082E+03 SIGMAA .23361562E+03 1108523E+02 1NNG .2417082E+03 SIGMAA .2365647E+02 1NNG .2417082E+03 SIGMAA .2869206E+00	TARL	112		Ţ			
A .286920656+00 AlPHAA .11085236+02 YAW E .97347066+02 PICH E .2949556+02 U .26432606+02 YAW E .97347066+02 PICH E .2949556+02 U .26432606+02 YAW E .97347066+02 PICH E .2949556+02 U .26432606+02 V .10006216+04 W .10006216+04 W .10006216+04 W .10006216+04 W .10006216+02 V .29248946+02 SIGMAR .11047776+02 UWIND .21928506+01 V-WIND .21928506+01 V-WIND .2109114306-03 SIG-VA .28246356-05 SIG-NA .28589466-03 SIG-VA .28589466-03 SIG-VE .77180356-02 SIG-WE .28589466-03 SIG-AA .28589466-03 SIG-VE .77180356-02 SIG-WE .28589466-03 SIG-WE .20907006+01 PINF .30964586+04 PSTAG .46932956-01 Q A .21208146+01 Q A .97460066+04 Q P .94711946+04 PSTAG .46932956-01 Q A .21208146+00 C .20108596-01 C XB .46222666+00 C .12221326+00 C .20108596-01 C XB .46222666+00 C .12221326+00 C .10 .22946026-03 C N-YAW .64847656-04 PDOT42506366-04 C M-PITCH .22946026-03 C N-YAW .64847656-04 PDOT42506366-04 C M-PITCH .22946026-03 C N-YAW .64847656-04 PDOT3882828286-01 RDOT12283282896-01 RDOT12283282896-01 RDOT12283282896-01 RDOT12883896-01	ALTOE	7 .	-6311429E+03	- 1	6054046E+01	HDG A	.9221340E+02
E .2934955£+32 U	B 111E		-3505647E+02	LUNG	-2417082F+03	SIGMAA	.2912408F+02
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R • 5341252810E+03 GAM R 6141582F+01 HDC R 9244894E+02 SIGMAR R • 5341252E+00 AIPHAR • 1104777F+02 U-WIND • 2192850E+01 V-WIND ND 0 SIG-VA • 2824635E-02 SIG-GA • 2097278E-03 SIG-HA H • 4722199E+00 SIG-1A • 3604529E-05 SIG-CA • 7718035E-05 SIG-PE RA • 6911430E-03 SIG-AA • 2858946E-03 SIG-NE • 7718035E-02 SIG-PE RE • 2858946E-03 SIG-YE • 7718035E-02 SIG-PE A • 2120814E+01 MACH R • 2090700E+01 PINF • 3096458E+04 TEMP A • 2120814E+01 Q A • 9746006E+04 Q R • 9741194E+04 PSTAG CEL • 3762943E-01 Q A • 4022266E+00 C A • 4022266E+00 C A • 4022266E+00 C A • 402294602E-03 C C • 402294602E-03 C C <td>' [</td> <td>7</td> <td>2643260E+02</td> <td>7</td> <td>*1000621F+04</td> <td>7</td> <td>*6656445E+02</td>	' [7	2643260E+02	7	*1000621F+04	7	*6656445E+02
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H .4722199E+00 SIG=VA .2824635E-02 SIG-GA .2097278E-03 SIG-HA H .4722199E+00 SIG=LA .3604529E-05 SIG-LO .3523497E-05 SIG=SA BA .6911430E-03 SIG=AA .2858946E-03 SIG=YE .7718035E-03 SIG=PE RE .2858946E-03 SIG=V .2858946E-02 SIG=W A .2120814E+01 MACH R .2090700E+01 PINF .3096458E+04 TEMP A .2120814E+01 Q A .9746006E+04 Q R .9471194E+04 PSTAG4549901E+00 Q2010859E-01 R .4022266E+00 Y ACCEL3762943E-01 Z ACCEL9559569E+01 CXB .1222132E+00 CYB3551413E+00 CL .3250173E+00 CD .1882157E+00 L/D .3822829E-01 RPUT .1978999E-01	KE IA K	*>341252E+00	*1104777E+02	U-MIND	.2192850E+01	V-WIND	.9109620E+01
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05 DYNAM. DATA *************		CAM A 6927160E+01			1A E E C C C C C C C C C C C C C C C C C	•		1			1	A	TNE	0 X 22 X 23 X 20 X 20 X 20 X 20 X 20 X 2		A STANDARD TO THE TOOL OF THE		CN-YAW O 44/ 133E		· · · · · · · · · · · · · · · · · · ·	7802090E+01		u	1AW E 0542745403	•	•	•	4	716-11
1) • AMABETH • NEO105 DYNAM • DATA		2 60434663014] -										İ			9453506E+01		H .2485806E-03	3172178E-01								,1121811E+02	•	3564029E-02
ISE8, 10/8			VEL A	LATD	AL PHAA	- 1	GAM R	ALPHAR	SIG-VA	SIG-1 A	-	516-1	MACH R	0 A	0	Z ACCEL	17	CM-PITC	RUUT					ALPHAA				SIG-VA	1 SIG-1A
METBET1 USING LAIRS(USEB,10/B1			.19450C0E+04	.2351055E+05	2106202E+00	.2874298E+02	.6024530E+03	.4977265E+00	0.	.4641574E+00	.6820985E-03	.2802089E-33	.2053861E+01	.5176636E-01	3769428E+00	5100943E-01	3547362E+30	4715411E-04	.4150821E-01	AND THE PARTY OF T	e de la maio deste como propos estás incapito de acada i forma como deste incapito de la como de la	.195000E+04	-2312461E+35	4218074E+00	-2824548E+02	.5831012E+03	3951378E-01	O.	.4564069E+30
* METRE	**************************************		TIME	ALTDE	BETA A	ROLL E	VEL R	BETA R	ONI M-M	H-918	SIG-BA	SIG-RE	MACH A		a	Y ACCFL	C.7.R	RDL	opnt			TIME	AL TDE	BETA A	ROLL E	VEL R	BETA R	ONIN-M	A-6 17

.2194319E+03

.1928371E+05

2605069E-02

SIG-W TEMP

.2447186E-02

SI6-YE SIG-V PINE

.6693211E-03

SIG-AA SIG-PE MACH A

2702096E-03 1983972E+01 .5507460E-01

.1719200E-02

9555199E+04

.1963904E+C1

MACH R SIG-U

.6828796E-01

-- 9860818E+01

7 ACCE

o

4586940E+00

RHD

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.261976BE-31

-.3410977E+01 .9924592E-03

X ACCEL

4799511E+00

-1292197E+00

C X B C

.9362872E+04

.3469076E+04

PSIAG

-.3428023E+00

PDOT 97 CXB

2001199E+00

-- 1580274E-03

CN-YAW

3408 788E+CO

-,2224148E-03

CM-PITC4

--12357.08E-03

CL-POLL

C 7 B

TICO

--3560359E-01

-.3735621E+00

PD01

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1703373E+01

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· 安全市场,在市场市场,市场市场,市场市场,市场市场市场市场市场,市场市场,市场市场	- * METRET1 USING LAIRS (USER 10/81) AMARETHAN	**************************************		

F ** * * * * * * * * * * * * * * * * *	*9850115E+02 *2759132E+02 *1128509E+01 *8460696E+02 *2753646E+02 *4746766E+01 *1669057E-03 *1053404E-02 *275364E-02 *275366E+01 *1653260E+01 *1929251E+05 *3890781E-02 *1732807E+01	*1005404E+03 *2140637E+02
**************************************	-8566214E+01 HDG A -2418040E+03 SIGMAA -1030399E+03 PICH E -9333018E+03 W -9887648E+02 SIGMAR -2982658E+01 V-WIND -2575626E-03 SIG-HA -3482266E-05 SIG-PE -2238467E-02 SIG-PE -2238467E-02 SIG-PE -3698082E+04 TEMP -9354422E+04 TEMP -1153312E+00 X ACCEL -1312415E+00 CYB -1984746E+00 L/D -5621024E-03 PD0T	-9365737E+01 HDG A -2418335E+03 SIGMAA -1041983E+03 PTCH E
, a AMARFTH a NEO105 DYNAM	GAM A	-5482427E+03 GAM A9 -3504466E+02 LONG 2-11025023E+02 YAW E 110
RS(USER, 10/81). AM	VEL A LATD ALPHAA SIG-VA SIG-VA SIG-LA SIG-LA SIG-LA CL CM-PITCH CM-PITCH RDDT	VEL A LATD ALPHAA
# METRET1 USING IATRS(USER.10/81 ************************************	ALINE .1955000E+04 ALINE .2271155E+05 BETA A .4465583E+00 RULL E .2733749E+02 VEL R .5638199E+03 NEL R .5638199E+03 NEL R .5638199E+03 NEL R .689363E+00 SIG-H .4489363E+00 SIG-H .4581758E-03 MACH A .1915408E+01 P .5885270E-01 P1020604E+00 CZB .3747634E+00 CZB .3747634E+00 CZB .3747634E+00 CZB .3747634E+00 CZB .3747634E+00 CZB .3747634E+00 CZB .3747634E+00	ALIDE .2227496E+05 BETA A .7175731E-01

	-+9365737E+01 HDG A 1005404F+03	2418335E+03 SIGMAA .2140637E+02	1041983E+03 PICH F . 2150223E+00		SIGMAR	V-WIND	SIG-HA	3476059E-05 SIG-SA .1055801E-02	1055801E-02 SIG-PE .7056825E-04		3957276E+04 TEMP .2183704E+03		X ACCEL -	CYB	170	TOOG
548242754A3 CAN A			YAW E							V-6-V	PINE	x 0		CXB		
*1950000E+04 VEL A	.2227496E+05 1ATO		27110025402 11	-5458038E+02 CAM D	42636436F+00 AI PHAP	0. CTC-VA	4417177F+00 STG-1 A	-7056825F-34 CTC-44		-1850981F+01 MACH 0			8050003E-01 7 ACCEL	3625787E+00 CI	2872425E-33 CM-PITCH	1707//27 01 2001
	AL TDE	BETA A	ROLL F	VEL R	BETA R	ONIM-M	SIG-H	SIG-BA	SIG-RE	MACH A	RHO	٥	Y ACCEL	673	CL -ROLL	TUUO

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*****		* * * * * * * * * * * * * * * * * * * *	HDG A	SIGMAA	PICH E	3	SIGMAR	V-WIND	SIG-HA	SIG-5A	SIG-PE	SIG-W	TEMP	PSTAG	X ACCEL	C Y B	0/-	POOT				HDG A	SIGMAA	PTCH E	-	SIGMAR	V-WIND	SIG-HA	S16-5A	S16-PE	N-918	TEMP	PSTAG
******	L DATA	*****	1002636E+02	.2418618E+03	.1057284F+03	. 8899814E+03	.1023552E+03	, 7016703E-01	.2400447E-03	.3472327E-05	.1057974E-02	.2066517E-02	. 4247841E+04	.9452794E+04	3318261F+00	1 422 1005 +00	2063090E+00	- 27401435-04				1057007F+02	2418889E+03	1069270E+03	. 8686614F+03	.1038750E+03	1167128E+01	.2330651E-03	.3470837E-05	.1058526E-02	. 2045408E-02	. 4567395E+04	.9495992E+04
****	DIOS DYNAM	***	CAM A	I DNG	YAV F	>	۳ ن ت	: -	SIG-6A	816-10	SIG-YE	SI6-V	u N L O	a c	1	0 > 0	d v	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	4 0 1 - N			× × 0	080	u 747	>	ADG. R	_	ς 1 G−G Δ	016-10	STG-YF	\$16-V	HNId	9 C
*****	1. AMARETH. NEOLOS DYNAM. DAT	*****	5282047E+03	3503990F+02	10233655+02	1111540F+03	- 10060625+02	1023899F+02	1949727F-02	3489980F-05	.4557810F-03	.1650143F-02	17822745+01	04794375+04	47447444	50.305.50	- 97.83 (39.40)	434737165400	4542410E=U4	8770156E-02		60437067003	20777077	00005075+01	- 1200806E+03	- 10551636+02	00020846401	1034446-02	2441824E-05	4547207E-03	16460335-02	.1723687E+01	.9463247E+04
***	F8.10/81	****	A	VELA	ALOUAA	A L 7 1 B A	2 3 4	AL DUAD	S T G = VA	CTC-IA	CTG-AA	010-11	2 1 2 4 2	d .	A 0	ı	ZACCEL		CM-PITCH	RDDI			A 147	4470	ALVARA		LAT K	CICLVA	A 1-010	44-010	STG-11	O II LV W	•
*************	METRETI USING LAIRS (USER, 10/8	************		21910665408	20136961917	10200000	201127777	1,00050510	1400 620ET-VO	10.4001 6400	000777.0E-04	1667010600	-422(0105-03	1 /85 /8 /E+01	. 67927215-01	2133168E+Q0	2371533E-02	3735295E+0U	.6893450E-05	8634448E-01			19 70000E+04	2135432=+05	- 3029602 ± 00	1498056E+12	2094583E+03	4622200E+0V	00.10000000	42/9329E+30	1140840E-03	17707126101	72202116-01
· ** ** ** ** ** ** ** ** ** ** ** ** **	* METRET	*****		TIME	ALIDE	BEIAA		VELR	BEIAK	2 3 4	516-H	N 16-8A	≥ !	MACH A	RHU	٥	Y ACCEL	CZB	CL -RULL	DOOT			TWE	AL TDE	BETA A	ROLLE	VEL R	BETA R	CNIMIN	SIG-H	SIG-RA	>16-KE	1

8124780F-03

.1655970E+01

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PDUT

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CN-YAW

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CM-PITCH

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RDOT

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TIME	10760001.01						
AI The	*0+10000F+0+0	VFL A	.4887302F+03	-	1098109E+02	HDG A	10573155403
	\$509000 •	L A T 7)	•3502912E+02	ONG	.2419149F+03	CTCMAA	12262402
1	• < 2085 / 8E +00	ALPHAA	.9534956E+01	YAW E	10766605+02	T TOTO	*1320309E+02
-	•1309168E+02	n	1277672F+03	•	84740216402		1038249E+01
αl	.4912967E+03	GAM R	1092302E+02	907	10535071	3	.9309579E+02
BETA R	1127484E+00	17		A DOLL	.1073786E+03	SIGMAR	*1335449E+02
ONINI	0.	CTG-VA	10450445	ON THE	2315686E+01	CNIM-A	3357516E+01
SI 6-H	44213320E+00	010 010	70-34060441	516-6A	.2268455E-03	SIG-HA	.1676964E-03
SIG-BA	12111115-02	A 1 0 10	-343184E-05	216-10	.3471554E-05	SIG-SA	.1060596F-02
STG-PE	65103616-00	210-AA	• 4218361E-03	SIG-YE	.1060596F-02	SIG-PE	13111115-02
MACI	50-37050774.	D	.1652775E-02	SIG-V	.2052300E-02	STG-1	2248000
	• 16226U8 E+01	MACH R	.1664302E+01	PINF	.4914196F+04	TEMO	21400001.02
חבא	· (8424946-01	Φ 0	.9425893E+04	α σ	.9525150E±04	DOTAC	• 5104000+03
	1249416E+01	0	8277282F-01	1	+0.000000000000000000000000000000000000		• 1982664E+05
Y ACCEL	7486572E-01	7 ACCFI	- 0854712E±01	6 2 2	* 4 2 2 4 2 4 0 0	X ACCEL	3834293E+01
CZB	3781882F+30		٠	2 4 6	1471463E+00	CYB	2873076E-02
CL-ROLL	-5305475E-03	THOLM	• 349288 (E+CO	a i	.2077691E+00	1/0	•1677843E+01
ODOT	81474545-00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*80002/4E-04	CN-YAW	3739899E-03	PDOT	-1386003E+01
	7000	NO.11	45088545-01				
1	1 1 1						
1 ME	• 1980000E+04	VEL A	• 4701850E+03	GAM A	11274305 +03	1	
46	-2042065E+05	LATD	.3502328F+02	<u>ا</u>	24102005402	A SOLU	• 10 /0/36E+03
_	2020817E+00	ALPHAA	.9469503F+01	7 U V V	10002105	ori -	.1101126E+02
_	.1076263E+J2	f	1315604F+03	1	027/5//13/103	A HOLA	2012372F+01
VEL R	•4731795E+03	GAM R	11202025+03	Į.	• CC (0244E+03	-32	.9192407E+02
BETA R	801450AE+00	1 7	05:3:3:	HU 6 K	•1064653E+03	SIGMAR	.1113019F+02
z	0.	77 010	• 421311E+01	ONIM-	3821627E+01	V-WIND	4340236F+01
A-CIC	41401116400	8 A B B B B B B B B B B B B B B B B B B	19/3233E-02	SIG-6A	.2214792E-03	STG-HA	14017805-03
CT G-BA	16265700 20	A1-414	.3400176E-05	SIG-10	A3474624E-05	516-5A	10417745-03
01 G-0 E	1,000,000	215-4A	.4486749E-03	\$16-YE	*1061776F-02	STG-PE	15255705-02
A LOAN	100,000,	_	.1665468E-02	SI 6-V	-2074260F-02	7 TG-12	2107/201
_	• 129428/E+UI	MACHR	.1604440E+01	PINF	52858255+04	TURO	217/029 - 02
חבא	•8505368E-01	A 0	.9401571E+04	a C	05217075+04	V - 1 0 C	• 610 4942 6+03
	• 5030696E+00	0	4665386E-01	~	27027505+00	Y A A B	*1999024E+05
ACCEL	•3515302E-01	Z ACCEL	1011960F+02	C X B	16241267.00	ALLEL	3967045E+C1
6 Z 3	3893020E+00	J	•358889F+00	200	21450105:00	6 4 3	•1352340E-02
CL-ROLL	2504487E-33	CHICIMO			• C 1 7 7 0 1 7 E + UO	7/0	.1672503F+01
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+ + + + + +							
77.45	10050001	VELA	4526441F+03	GAM A	1141040E+02	HDG A	.1084833E+03
A T DE	10064215+05	C	.3501730F+02		.2419635E+03	SIGMAA	.9899955E+01
BETA A	24755785-01	ANGIA	.9261548E+01	YAW E	.1100343E+03	PICH E	2277432E+01
8011 F	.97174995+01		-,1345101E+03	>	.8074462E+03	3	.8954900E+02
α	4546097F+03	GAM R	1136041E+02	HDG R	.1075653F+03	SIGMAR	.1008193E+02
<	8581137F+00	AI PHAR	.9368431E+01		6154211E+01	V-WIND	4110965E+01
	0.	S 16-VA	.2009135E-02	SIG-GA	.2163808E-03	SIG-HA	.1706923E-03
ALC: H	4086522F+00	ST6-1 A	.3366763E-05	SIG-10	.3480272E-05	SIG-SA	.1064936E-02
O TG-BA	14475955-03	SIG-AA	.4441718E-03	SIG-YE	*1064936E-02	SIG-PE	1647595E-03
0 T G = 0 E	F0-1817184	11-512	-1679061E-02	SIG-V	.2105539E-02	SIG-W	.2149099E-02
4 D 4 1	15260815+01	A HUAM	.1542751F+01	PINE	.5678252E+04	TEMP	.2161413E+03
	01510615-01	V 0	.9375572E+04	۵ 0	.9457175E+04	PSTAG	.2016599E+05
	2801727E+00	1	1850761E-01		.1460749E+00	X ACCEL	3998381E+01
Y ACCEI	18806935-01	7 ACCEL	1027412E+02	CX8	1542227E+00	CYB	.7254074E-03
7 2 0 7 0	30628615+00	۱ ــ	-3662992E+00	CD	.2159911E+00	q/ T	.1695900E+01
- 100-10	-17497P1F-03	CM-PITCH	3423385E-04	CN-YAW	2168524F-03	PDOT	4753548E+00
QDOT	5058271E-02	RDUT	8194597E-01				
14 45	100000001	VE1 A	-4338335F+03	GAM A	1150499E+02	HDG A	,1095057E+03
A1 TOE	10522275+05	10	3501123F+02		.2419862E+03	SIGMAA	47246237E+01
DETAA	32554885-01	A1 PHAA	.8841530F+01	YAW E	.1105849E+03	PICH E	2728356E+01
í	71147335+01		1353141E+03		.7880858E+03	3	. 8652953E+02
i 🗅	4342056E+03	GAM R	1144158E+C2	4DG R	.1084512F+03	SIGMAR	.7456589E+01
	- 9995420F+00	AL PHAR	.8910381E+01	U-NIND	6632943E+01	V-WIND	4840592E+01
CNINI	0	S I G-VA	.2044577E-02	SIG-6A	.2116510E-03	SIG-HA	.1725662E-03
T-U	40254515+00	STG-LA	.3331692F-05	SIG-10	.348R701E-05	SIG-5A	.1065642E-02
STG-BA	1877505E-03	SIG-AA	.4407948E-03	SIG-YE	.10656425-02	SIG-PE	.1877505E-03
01 C-0 E	E0-18707077	ST6-U	.1698317E-02	SIG-V	.2136835E-02	N-918	.2103024F-02
A HOAM	1473788F+01	MACH	.1481344E+01	PINF	*6086849E+04	TEMP	.2158356E+03
מארנו ש	OR24417F-01	1	.9245339E+04	8	.9346717E+04	PSTAG	.2016756E+05
0	14581436+00	0	1351307E+00		.7157555E-01	X ACCEL	4057729E+01
Y ACC 61	12693798F-01	7 ACCEL	1006965E+C2	CXB	1586946E+00	CYB	.1053524E-02
	- 3938162E+JO	١	.3647449E+00	CD	,2173393E+00	1/0	.1678228F+01
100-17	2280794F-03	CM-PITCH	6568158E-04	CN-YAW	-,2948182E-03	PDOT	6120582E+00
1000	- 1000674E-01	TOUG	1090873E+00				

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TIME		****	****	***************************************	***	****	***	***
-1995000E+04 VEL A .4143976E+03 GAM A1178061E+02	14					The second secon		
-1909276E+05 LAID	TIME			.4143976F+03	1	11780A1E402	- 4	20.100001
1806683E+00 ALPHAA	AL TDE		ATO	.3500518E+02	10	. 2420078E+02	CTCMAA	*1099848E+03
*485455E+01 U	- 1	ı	LPHAA	.8450309E+01	1	11111355+03		- 3403414E+01
-4185435E+03 GAY R1146227E+02 HDG R .1091003E+03 -1054515E+01 ALPHAR .8431716E+01 ULWIND1616165E+01 0.				1341299E+03		.7698661F+03		94405415402
1054515E+01 ALPHAR .8431716F+01 U-WIND4516145E+01 0.	~			1166227E+02		-1091003E+03	STCMAD	64817046401
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	BETA R	*1054515E+01	LPHAR	.8431716F+01	U-WIND	4516145F+01	(NI)	60050005+01
.3965786EE10 SIG-IA .3295138E-05 SIG-ID .3500168E-05 .4394994E-03 SIG-AA .4394934E-03 SIG-Y .1068138E-02 .4394994E-03 SIG-Y .2162345E-02 .1408123E-11 MACH R .1422210E+01 PINE .6512710E+04 .226430E+00 D A .9036445E+04 D R .927816E+04 D R .2789374E-01 .4686280E-01 Z ACCEL .3463626E+00 R .2789374E-01 .4686280E-01 Z ACCEL .34630799E+00 C .21829374E-01 .4686280E-03 CM-PITCH .2792227E-04 CN-YAW .2789374E-01 .23793230E-03 CM-PITCH .2792277E-04 CN-YAW .2789374E-03 .28070800E+04 VEL A .33678146E+03 CM-YAW .2739344E-03 .46076660E+05 LATD .3469917E+02 LDNG .2420285E+03 .46076660E+05 LATD .3469917E+02 LDNG .2420285E+03 .4607660E+05 LATD .3469917E+02 LDNG .2420285E+03 .4607660E+05 LATD .3469917E+02 LDNG .2420285E+03 .460746E+05 LATD .3469917E+02 LDNG .2420285E+03 .380744E+00 SIG-AA .271636E+03 SIG-AA .271636E+03 SIG-AA .271636E+03 SIG-AA .271638E+01 DLWIND .4735426E+01 .3257280E-05 SIG-ID .37169684E+04 .3257280E-05 SIG-ID .37169841E-02 .371632E+00 A .3257280E-05 SIG-ID .37169841E-02 .371638E+01 CNB .371638E+01 CNB .371636E+04 .371638E+01 CNB .371636E+04 .371638E+01 CNB .371636E+04 .371638E+01 CNB .371636E+00 .2718380BE+01 CNB .371636E+00 .2718380BE+01 CNB .371636E+00 .2718380BE+01 CNB .371636E+00 .2718380BE+01 CNB .371636E+00 .2718380BE+01 CNB .371636E+00 .2718380BE+01 CNB .371636E+00 .2718380BE+01 CNB .371636E+00 .2718380BE+01 CNB .371636E+00 .2718380BE+01 CNB .371636E+00 .2718380BE+01 CNB .371636E+00 .2718380BE+01 CNB .371636E+00 .2718380BE+01 CNB .371636E+00 .2718380BE+01 CNB .371636E+00 .2718380BE+01 CNB .3718386E+00 .2718380BE+01 CNB .3718386E+01 CNB .	ONIM-A		IG-VA	.2074166E-02	SIG-6A	.2072494F-03	ST6-HA	17431575-03
-1953802E-03 SIG-AA .4394994E-03 SIG-YE .1068138E-02 .4394994E-03 SIG-H .171740E-02 SIG-V .2162346E-02 .14981994E-03 SIG-H .171740E-02 SIG-V .2162346E-02 .1498132E+01 MACH R .913645E+04 Q.R .92181516E+04 .2648113E+00 Q.A .903645E+04 Q.R .9218152E+04 .2648113E+00 Q.A .9778464E+01 CXB .278937E+01 .364513E-02 R.D21625657E+00 .2648113E+00 Q.A .216269E+00 CM .216250F+00 .2182907E+00 .2648113E+00 Q.A .279227E-04 CM-YAW .21625657E+00 .2182907E+00 .2182907E+00 .2455718E-02 R.D2935967E-01 .2455718E-02 R.D2935967E-01 .2455718E-02 R.D2935967E-01 .2455718E-02 R.D2935967E-01 .2455718E-02 R.D2182907E+03 .2600000E+04 VEL A .3967816E+03 V.R E .110385E+03 .26007660E+00 ALPHAA .8060147E+01 VA.E .110385E+03 .26007660E+03 .216566E-02 SIG-M .216566E+03 .216566 .2030709E-03 .216566E-03 .216664 .216569E-03 .21666405E-	SIG-H		IG-LA	.3295138F-05	SIG-LD	43500168E-05	S16-5A	10681385-02
1000000000000000000000000000000000000	STG-84	1	IG-AA	. 4394994E-03	SIG-YE	-1068138F-02	STG-PF	10528025-02
1408122E+01 MACH R	SIG-RE		16-11	-1717430E-02	ν-9 IS	-2162345F-02	016-W	2050628E-02
1052430E+00	MACH A			*1422210E+01	PINE	-6512710F+04	TEMP	2145784E402
A468628113E+00	RHU			-9036445E+04		-9218162E+04	PSTAG	20044545405
4686280F=01	- 1			1251564E+00		.2789374F-01	X ACCEI	- 40432385401
3912163E+00 CL	Y ACCEL			-,9778464E+01	CXB		Y B	18769855-02
3379320E-03	CZB			*3630799E+00	CD		0/ -	14422845401
4555718E-02 RDDT9359967E-0120000000E+04 VEL A .3967816E+03 GAM A1214299E+0218676664E+05 LATD .3499917E+02 LDNG .2420285E+03804147E+01 U ALPHAA .8040147E+01 VAW E .1110385E+03804147E+01 U1331828E+03 VAW E .110385E+034017493E+03 GAM R1199059E+02 HDG R .1058100E+033981934E+00 ALPHAR .7990759E+02 HDG R .1058100E+03 0. SIG-VA .2105576E-02 SIG-GA .2030709E-033907444E+00 SIG-IA .3257280E-05 SIG-ID .4735426E+01 0. SIG-VA .2105576E-02 SIG-CA .2030709E-0212889399E-03 SIG-AA .4371636E-03 SIG-VE .1071907E-02128883E+01 Q A .8863087E+04 Q R .9086405E+041128883E+01 Q1688136E+01 CXB1052951E+003913952E+00 CL .3651077E+00 CD .2136064E+007210947E-03 CM-PITC48561077E+04 (CN-YAW .4299698E-039927310E-02 RD0T .8865316E-01	CL-ROLL		M-PITCH	2792227E-04	CN-YAV	2335344F-03	POUT	07.21705.00
-2000000E+04 VEL A .3967816E+03 GAM A1214299E+02 .2420205E+03 .6067660E+00 ALPHAA .8040147E+01 YAW E .1110385E+03 .5804147E+01 I VAW E .1110385E+03 .5804147E+01 I VAW E .1110385E+03 .4017493E+03 GAM R1331828E+03 V .7522597E+03 .4017493E+03 GAM R1139059E+02 HDG R .1098100E+03 .3981934E+00 ALPHAR .7990759E+01 U-WIND4735426E+01 O. SIG-VA .2105576E-02 SIG-GA .2030709E-03 .3907444E+00 SIG-IA .3257280E-05 SIG-IA .3514841E-05 .1989399E-03 SIG-IA .3257280E-05 SIG-V .2189842E-02 .437163bE-03 SIG-V .2189802E+04 .1125932E+00 Q A .8863087E+04 Q R .9086405E+04 .1125932E+00 Q A .8863087E+04 Q R .1052951E+001688136E+01 CXB1052951E+003913952E+00 CL .3551077E+00 CD .2136064E+00 .2136064E+007210947E-03 CM-PITC46915901E-04 CN-YAW .4299698E-039927310E-02 RD01	QD0T		DOT	9359967E-01				00+38/184/00
*2000000E+04 VEL A .3967816E+03 GAM A1214299E+02 *1867064E+05 LAID .3499917E+02 LING .2420285E+03 *5804147E+01 U1331828E+03 V .7522597E+03 *5804147E+01 U1331828E+03 V .7522597E+03 *4017493E+03 GAM R1199059E+02 HDG R .1098100E+03 *3981934E+00 ALPHAR .7990759E+01 U-WIND4735426E+01 0. SIG-VA .2105576E-02 SIG-GA .2030709E-03 *3907444E+00 SIG-LA .3257280E-05 SIG-GA .2030709E-02 *1989399E-03 SIG-NA .4371636E-02 SIG-KE .1071907E-02 *1348929E+01 MACH R .1365918E+01 PINF .6960684E+04 *1125932E+00 Q A .88863087E+C4 Q R .9086405E+041128883E+01 Q1688136E+01 CXB1052951E+007480147E-01 Z ACCEL9596518E+01 CXB1052951E+003913952E+00 CL .32651077E+00 CD .2136064E+007210947E-03 CM-PITC46915901E-04 CN-YAW .4299698E-039927310E-02 RDGI .8865316E-01								
**IB67064F+05 IATD	TIME	l		20470145402				
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3981934F+00 ALPHAR .7990759F+01 U-WIND4735426F+01 0. SIG-VA .2105576E-02 SIG-GA .2030709E-03 .3907444F+00 SIG-LA .2257280E-05 SIG-LO .3514841E-05 .1989399E-03 SIG-AA .4371536E-03 SIG-YE .1071907E-02 .4371536E-03 SIG-W .1738600E-02 SIG-Y .1071907E-02 .1348929E+01 MACH R .1365818E+01 PINF .6960684E+04 .1125932E+00 Q A .8863087E+64 Q R .9086405E+041128883E+01 Q1688136E+01 CXB1052951E+007480147E-01 Z ACCEL9596518E+01 CXB16524602E+003913952E+00 CL .3651077E+00 CD .2136064E+007210947E-03 CM-PITC46915901E-04 CN-YAW .4299698E-03	α) }	.7522597E+03	3	*8346386F+02
0. 31013316-01	<	2081026E+00	2 7 7 6	1199059E+02	HDG R	.1098100E+03	SIGMAR	.6004129E+01
39074445+00 \$19-74 *21022765-02 \$16-64 ***20307095-03 ***39074445+00 \$16-14 ***32572805-05 \$16-10 ***35148415-05 ****3716365-03 \$16-75 ***3716365-03 \$16-75 ****3716365-02 \$16-75 ****3716365-02 \$16-75 ****3716365-02 \$16-75 *****3716365-02 \$16-75 *****3716365-02 \$16-75 ************************************	CNLVIN	TANK SACETOR	TAAK	21055275 00	GNT A TO	4735426E+01	V-WIND	7170164E+01
*1989399E-03 SIG-AA *4371636E-05 SIG-LO .3514841E-05 .1989399E-03 SIG-AA .4371636E-03 SIG-YE .1071907E-02 .437163bE-03 SIG-YE .1071907E-02 .1348929E-03 SIG-W .1348929E+01 PINF .6960684E+04 .1125932E+00 0 A .8863087E+04 0 R .9086405E+04 .1128883E+01 01688136E+00 R .1052951E+00 .27480147E-01 Z ACCEL .9596518E+01 CXB .1052951E+00 .2136064E+0	710	00.7/1/000	A	-21022/0E-02	5 6-6A	.2030709E-03	SIG-HA	.1762867E-03
*4371636E-03 \$16-YE ,1071907E-02	01010		A	-3257280E-05	516-10	-3514841E-05	\$16-SA	.1071907E-02
**1348929E+01 MACH R **1365818E+01 PINF **6960684E+04	20000		15 - A A	.4371636E-03	SIG-YE	.1071907E-02	SIG-PE	.1989399E-03
*1125932E+01 MACH R *1365918E+01 PINF *6960684E+04 1125932E+00 0 A *8863087E+64 0 R *9086405E+04	7 1 6 - K F		_	.1738600F-02	SI6-V	.21R9842F-02	SIG-W	-2018576E-02
-1125932E+00 Q A .8863087E+C4 Q R .9086405E+04 -1128883E+01 Q1688136E+00 R1052951E+007480147E-01 Z ACCEL9596518E+01 CXB1604402E+003913952E+0Q CL .3651077E+0Q CD .2136064E+007210947E-03 CM-PITC46915901E-04 CN-YAW .4299698E-039927310E-02 RDDI .8865316E-01			1	•1365818E+01	PINE	-6960584E+04	TEMP	-2153660F+03
	O C		4	.8863087E+04	- 1	-9086405E+04	PSTAG	. 2000648F+05
	1 0 0			1688136E+00	8	1052951E+00	X ACCEL	3933792F+01
3913952E+00 CL -3651077E+00 CD -2136064E+00 7210947E-J3 CM-PITC46915931E-04 CN-YAW -4299698E-03 9927310E-02 RDDI -8865316E-01	Cashet	1	- 1	-,9596518E+01	CXB	1604402E+00	CYB	3050788F-02
	977			•3651077E+00	СD	.2136064E+00	Q/1	*1709254E+01
9927310E-02 RODT	1 - KUIT		-DIIG-	6915901E-04	CN-YAW	.429969BE-03	PDOT	1775660F+01
	ADD I		100	.8865316F-01				

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TIME	.2015000E+34	VEL A	.3505834E+03	GAM A	1303460F+02	A 201	11 34.01 5.00
AL TDE	1743761F+05	LATO	-3499207E+02	U U	.2420853E+03	ALCIA	- 37075095+01
BETA A	1610649E+30	AL PHAA	.7897338E+01	YAW E	.1120854F+03		- 51438776401
i	-,3751127E+01	n	1192016E+03	۸	.7076979E+03		7007006E+02
OX [.3552329E+03	GAM R	1286114E+02	HDG R	.1101326E+03		- 32854905+01
BETA R	2403601E+01	ALPHAR	.7584633E+01	U-WIND	1122345E+02		
CNIM-M	• 0		.2030959E-02	SIG-6A	.2835796E-03	SIG-HA	.2851837E-02
SIG-H	*3740006E+00		.3136776E-05	516-10	.3578954E-05	SIG-SA	10838455-02
SIG-BA	*1226486E-33	SIG-AA	3592231E-03	SIG-YE	-1083845F-02	SIG-PE	.122686E-03
	.3592231E-03	SI6-U	.1852732E-02	S16-V	.2212430F-02	016-V	18000375-00
MACH A	.1192936E+01	MACH R	*1208757E+01	PINE	8456753F+04	TEMP	21408125403
KHU	.1370380F+00	Φ Φ	*8421579E+04	0 8	*8646434F+04	PSTAG	201844640
	1464927E+01	0	6537198E-01	α	.2491624F+00	X ACCET	- 20158 ABEAN1
YACCEL	3196876E+00	ZACCEL	9969964E+01	CXB	1680175E+00	CYB	- 13714705-01
CZB	-44277797E+90	13	.4006372E+0C	CD	.2252003F+00	0/	17700265-01
CL-POLL	.5843742E-03	CM-PITC4	-8041141E-04	CN-YAW	-366228BE-03	PUUA	14071106401
1000	•5773495E-02	RDOT	.1391220£+00				TO TACE OF
TIME	.202000E+04	VEL A	• 3369712E+03	GAM A	1308595F+02	A SUH	1120704611
щ	1704720E+35	LATD	.3497690E+02		2421027F+03	STEMAA	35072825+03
	6991804E+00	AL PHAA	-7933779E+01	YAW E	1132595F+03	PTCH F	52071315+01
بــ	.3270785E+01	7	1124748E+03	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	+6942423E+03	3	76271855+02
241	.3400402E+03	GAM P	1296186E+02	HDG R	.1098414E+03	SIGMAR	40123435+01
REIA R	2883255E+01	AL PYAR	*7952975E+01	U-MIND	1086490E+02	QNIM-X	7644520F+01
CNIMIN	0	S I G-VA	.2044263E-02	SIG-6A	.2779594E-03	SIG-HA	-2894127F-03
H-117	4686523E+00	STG-1 A	*3094675E-05	SIG-10	-3606938F-05	SIG-SA	-1093936F-02
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√.	.3521711E-03	_	-1900077E-02	V-918	.2208813F-02	SIG-W	-1860626F-02
A 500	•1146398E+01	⋖	•1157182E+C1	PINE	.8995100F+04	TEMP	.2149362E+03
, F C	•142/920E+00	A 0	.8272397E+04	a	.8428768E+04	PSTAG	. 2029480F+05
	* 102001 E+01		• 5227375E-01	~	•6083175E-02	X ACCEL	3888730E+01
7 ALLE L	-1240043E+00	Z ACCEL	1011410E+02	CXR	1698414E+00	CYB	.6970982E-02
21.00	= 444 (362E+30		•4140653F+00	CD	.2291879E+00	LVD	*1806663E+01
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TIME	*2035000E+04	VEL A	.2933149E+03	GAM A	1404553E+02	HDG A	-1136138E±03
AL TRE	•1596711E+U5	LATO	*3496229E+02	FUNG	-2421503E+03	3	47003 BY E + OO
1	.1162512E+00	ALPHAA	.6394346E+01	YAWE	.1135512F+03	DICHE	745040100
-4	•4982378E+00	D	1032778E+03		- 6544089F+03	1	71105755701
VEL R	.2994085E+U3	GAM R	1375399E+C2	a SOH	11080005+02	CTCMAD	11502355.0
BETA R	2618116E+01	ALPHAR	•6141704E+01	-	1070268E+02	V-UTAIN	111111111
CNIMI	•0	SIG-VA	-2119854F-02	8 I G-GA	- 2622006E-63	CTCLUA	20,0,000
ST G-H	•3532364E+00	SIG-LA	-2964741E-0E	016-10	27102045-05	AH-976	• 3008622E-03
SIG-BA	.1010546E-03	SIG-AA	.3503981F-03	710-VE	11054626-02	210-24 210-21	-1102622E-02
SIG-RE	.3503981E-03	11-51×	2051093E-02	010-11	20-32/0/110	34-915	-1010546E-03
MACH A	.9979896F+30	MACH	10187225401	DINE	\$ 55 4 1 53 (E - 02	V-910	.1755767E-02
1	1728790E+00	1	10+362/07074	LINE	€106 (023E+05	LEMP	.2150149E+03
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- 1	T442426E+00	Z ACCEL	7928656E+01	CX B	1602339E+00	C Y B	9434192E-02
CZ B	3850704E+00	13	*3648294E+00	CD	.2021227F+00	1 (0	18040005401
CL -ROLL	.5244458E-03	CM-PITCH	5603030E-03	CN-YAW	17975535-03	Phot	11044426401
000T	7826923E-01	RDUT	.55867215-01			0	10+3300011
	and the state of t						
4 E 7	• 2040000E+04	VEL A	.2843617E+03	GAM A	1615011E+02	HDG A	-1141546F+03
	.1558808E+05	LAID	3495771E+02	LONG	*2421649E+03	3	19910786+01
	•6557514E+00	AL OHAA	.7069685E+01	YAW E	.1137441E+03	P TCH F	9061528F+01
XOLL E	.2121342E+01	n	1012828E+03	٨	•64379185+03	1	. 7909658E±02
	.2911475E+03	GAM R	1576378E+C2	HDG R	.1111905E+63	SIGMAR	. 28.02 5.1 QE ± 0.1
BY (A R	2207809F+01	AL PHAR	.6802960E+01	U-WIND	-1048595E+02	ONIM-A	1202675F+02
ON TACK	0	SIG-VA	.2140042E-02	SIG-GA	.2579705E-03	SIG-HA	-3111968E-03
H-916	• 3483070E+00	SIG-LA	.2921458E-05	SIG-10	*3751174E-05	SIG-SA	11082705-02
516-8A	•9697268E-04	SIG-AA	•3555834E-03	SIG-YE	-1108270E-02	SIG-PF	-9697268F-04
×I	• 3555834E-03	STS-U	.2086792E-02	V-9 IS	*2258752E-02	SIG-W	1728424E-02
MACH A	•9672994F+0C	MACH P	.9903825E+00	PINE	.1132904E+05	TEMP	21511505+02
RHO	•1834669E+00	0 A	-7417706E+04	œ	.7775955F+04	DOTAC	20451025408
۵	1495759E+01	o	*1982409E+00	œ	2825154F+00	X ACCEL	- 3168946+01
YACCEL	•1528661E+00	Z ACCEL	8544118E+01	CYB	1542764E+00	CYB	7442346401
C7 B	4159751E+U0	CL	.3938247E+00	00	.2043002F+00	1 / 0	1027475+01
CL -RULL	2561442E-U3	CM-PITCH	6094701F-03	CN-YAW	-2454345F-04	POUT	- 52200405+00
DOOL	7739944E-01	RDOT	1781993E-02				22277775

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A1 TOC	15185675405	15	34953216+02	1 C	.2421790E+03	SIGMAA	4521590E+00
RETA A	504931 AF+00	AI PHAA	-8839242E+01	YAW E	.1135593E+03	PTCH E	7900984E+01
1	2897530E+00		9885143E+02		.6379229E+03	3	.8017238E+02
0	2853440F+03	SAM P	1631796E+02	HDG R	.1111598E+03	SIGMAR	.3876826E+00
	2345241F+01	_	.8418898E+01	ONIM-O	1016125E+02	ONIM-A	-,1208516F+02
	0.	STG-VA	.2168520E-02	SIG-GA	.2540124E-03	SIG-HA	.3273820F-03
ALG LA	3435127F+00	SIG-1 A	.2878750E-05	SIG-10	.3795187E-05	SIG-5A	1119134E-02
STG-BA	10729075	5 I G - A A	.3361801E-03	SIG-YE	.1119134E-02	SIG-PE	.1072997E-03
010-010 010-010	3341801F-03	STG-U	-2221835E-62	V-9 IS	.2267484E-02	816-W	.1695873E-02
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1	19537355+00	1	.7571369E+04	a. Or	.79537685+04	PSTAG	.2149897E+05
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13004 >	- 4014800E-01	7 10 11	1047850F+02	CXB	1141707E+00	CYB	3298768E-02
1	- 40073525+00	_	.4762562E+00	CD	18960545+00	1 / D	.2511829E+01
10011	3208731F-03	CM-PITCH	.9767189F-03	CN-YAW	.9020226E-04	POUT	6991107E+00
QDDT	,1367386F+00	RDOT	.1595652E-01				
17	70130000301	A 13V	27037035+03	A M AS	1538831F+02	HDG A	.1138731E+03
10.4	17.00000		34048846+02		. 24219285+63	STGMAA	5659952E-01
	- 1275638E+00	ALPHAA	.9927660F+01	YAWF	.1139896E+03	PTCH F	5460493E+01
0011	- 8882358E-01	1	9573143F+02	>	.6333828E+03		.7174528E+02
	27701516+03	Q M V	1496064F+02	HDG R	.1108884E+03	SIGMAR	.7135938E+00
	30106456+01	AI PHAR	.9516502E+01	ONIM-O	9769053E+01	GNIM-V	-,1247357E+02
	0	016-VA	.2204015E-02	S16-6A	.24969895-03	S16-HA	.3520973E-03
11010	133890755+00	STG-1 A	-2836972E-05	SIG-10	.3842066E-05	SIG-5A	1134630E-02
CT G-RA	10873435-03	SIG-44	.3043565E-03	SIG-YE	.1134630F-02	SIG-PE	.1087343E-03
CIG-PE	30435655-33	516-11	.2424102E-02	ST G-V	.2273905F-02	SIG-W	.1657145E-02
ANCH	9189866+00	MACH	.9446335E+00	PINF	.1282467E+05	TEMP	.2154517E+03
i	20735415+00	1	.7579163E+04	a 0	.8008067E+04	PSTAG	.2214508E+05
0 0	1423618F+00	1	-3144342E+00	~	.2525563E-01	X ACCEL	2414813E+01
V ACCEI	- 8202720F-U1	7 ACCF1	1164325F+02	CXB	1150339E+00	CYB	-,3907509E-02
	5546466E+00	۱_	.5265091E+00	CD	-2089350E+00	170	.2519966E+01
CI -RULI	3934411E-03	CM-PITCH	-,1489594E-02	CN-YAW	.3591921E-03	PDOT	-48223315E+00
Todo	2078477E+30	ROUT	.7643728F-01				

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TIME	*2055000E+04	VEL A	.2611066F+03	A M AG	1402255CA02	4 J4D	
ALTDE	*1446655E+U5	LATD	.3494459E+02	9	-2422063E+03	STEMAA	1616916+03
J	.2896128E+00	ALPHAA	.8597401E+01	YAW F	11406925+03	PTCH	- 56205045+01
_	*1548133E+01	n	9401397E+02	۸	.6269464F+03		. 4321120E+02
OXI	.2694148E+03	GAM R	1359136E+02	HDG R	.1110394F+03	O T GM A D	22447245401
BETA R	2723573E+J1	ALPHAR	.8255036E+01	ONIM-D	9539392E+01	CNTV-V	13230525+01
UNIA-M	•0	SIG-VA	.2218603E-02	SIG-6A	.3616794E-03	STG-HA	54800085-02
SIG-H	*3344815E+00	SIG-LA	*2796964E-05	SI6-10	.3891728E-05	816-8A	11405705-03
N 6 2 6 2 6 2 6 2 6 2 6 2 6 2 6 2 6 2 6	10505375-03	SIG-44	-2820657E-03	SIG-YE	-1140570F-02	SIG-PF	10505375-03
	.2820657E-03	\supset	.2632237E-02	816-V	.2288344E-02	SIG-W	16201325-02
MACH A	. 8870947E+00	MACH R	.9153214F+00	PINF	*1352377E+05	TEMP	.2156493E+03
KHO.	.2184676E+00	V 0	.7447194F+04	۵ 0	.7928663E+04	PSTAG	.2255450E+N5
İ	6134603E+00		7158232E+00	۵	4090858E-01	X ACCEL	2173608E+01
YACCEL	•	Z ACCEL	9962768E+C1	CXB	1053674E+00	CYB	•
E7.8	4829533E+00	7	-4617750E+00	CD	-1763804E+00	1 / D	2618066E+01
CL -R011	5120493E-03	CM-PITCH	.6330987E-03	CN-YAW	.5431202F-03	POOT	- 1047777
1000	.8701274E-01	RDOT	.1102002E+00				
TIMIL	-2040000E+04	VEIA	2647477	1			
AL TDE	1414455F±05	15	24040305103	A M M	1480892F+02	HDG A	.1142634E+03
BETA A	-2442769F-01	V V T Q I V	70527135404	_	2422195E+03	SIGHAA	*1303265E+01
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VELR	26514205403	0 74	1,2307,5:02	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•6219621E+03	7	•6562337E+02
◂	- 20054535401	1 -	20+447626474	HUG K	.1112494E+03	SIGMAR	.2051721F+01
Z	0	015-VA	32530705	ON THE	8895352E+01	N-MIND	1313594E+02
SI 6-H	-3302241F+00	8 1-518	27500545-05	A0-010	35/103/E-03	SIG-HA	.5763670F-03
SIG-8A	.1076207E-03	CTG-AA	20077577	27.01.0	-3444Z/6E-05	516-5A	.1142728E-02
SIG-RE	-2887357E-03	0.16=11	27521615 00	21-916 216 ::	.1142728E-02	SIG-PE	.1076207E-03
MACHA	-8718350E+00	O T J W	70-310176750	V - 0 1 C	• 2303033E-02	S I G-W	.1589908E-02
1	.2296083E+00	-	7667734		•1422792E+05	TEMP	.2158693E+03
d	-4054155E+00	1	- 1.200 EE C. C.	¥ 3' 6	. 8070817E+04	PSTAG	.2334806E+05
Y ACCE	1033027E-01	7 7 7 7 7	- 4640200-01	¥ 6	•1105560E+00	X ACCEL	2040676E+01
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- 10a- 10	11207315-03		422276E+00	CD	.1569484E+00	٦/٥	.2711258E+01
00 OT	- 3720805E±00	ב יייים	-, 46/6134F-02	CN-YAW	1708187E-03	PDOT	.2304729E+00
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T X T	-2065000F+04	VFL A	.2534172E+03	GAM A	1519175E+02	HDG A	.1144313E+03
AI TOF	.1381192E+05	LATO	.3493620E+02	O	.2422325E+03	SIGMAA	.3769R13E+01
RFTA A	3931694F-01	AL PHAA	.8077064E+01	YAW E	.1150038E+03	PICH E	7134115E+01
1	.36559115+01	ח	9324352E+02	٨	.6176492E+03	3	. 6640806E+02
∞	.2615027E+03	GAM R	1471125E+02	HUG R	.1116326E+03	SIGMAR	.4485035E+01
RETA R	2770800E+01	ALPHAR		ON I M-N	7907355E+01	ONIM-A	1245258E+02
CNINI	0.	SIG-VA	.2289737E-02	SIG-6A	.3529284E-03	516-4A	.6100019E-03
ST G-H	-3261447E+00	SIG-LA	.2727237E-05	S16-L0	.3999730E-05	SIG-SA	.1148622E-02
STG-BA	.1193310E-03	SIG-AA	.2818545E-03	SIG-YE	.1148622E-02	SIG-PE	.1193310F-03
STG-RF	.2818545E-03	0-9IS	.2923884E-02	816-V	.2323432E-02	S16-W	•1559630E-02
MACH A	.8614669F+00	MACH R	.8889527E+00	PINF	.1499380E+05	TEMP	.2154008E+03
	2424943F+00	4 0	.7786526E+04	a G	.8291323E+04	PSTAG	.2433722E+05
	1062334 F+01	1	.1395150E-01	۵	.1234197E+00	X ACCEL	1924891E+01
ACCEI	12404986+30	7 ACCE!	9731118E+01	Cx8	8922603E-01	CYB	.5750179E-02
(7 B	4510744F+00	-	•	CD	.1517191E+00	1/0	.2860965E+01
BD	12841546-03	HOLIG-WO	7808432E-03	CN-YAW	4361406E-03	PDUT	.2593597E+00
00 O T	11J2869E+00	RDOT	1126421E+CO				
TIME	-207000E+04	VEL A	.2506067E+03	GAM A	1507957E+02	HDG A	.1143659E+03
AI TOF	-1348130E+05	LATD	.3493198F+02	LONG	.2422452E+03	SIGMAA	1027267E+01
RETA A	3617507F+00	ALPHAA	.7837792E+01	YAW E	.1145859E+03	PICH E	7236451E+01
1	1094718E+01	=	9341992E+02	>	.6135745E+03	3	•6519791E+02
Ìα	.2576005E+03	GAM P	1466086E+02	HDG R	.1120156E+03	SIGMAR	4357026E+00
BETA R	2627833E+01	ALPHAR	.7390048E+01	ONIM-O	6410930E+01	V-WIND	1061692E+02
1 –	•0	SIG-VA	.2325702E-02	SIG-6A	.3487913E-03	SIG-HA	.6463127E-03
ST G-H	.3222548E+00	SIG-LA	. 2700095E-05	SIG-10	4058154E-05	\$16-5A	-1156788E-02
STG-RA	.1106020E-03	SIG-AA	.2749589E-03	SIG-YE	.1156788E-02	SIG-PE	.1106020E-03
71 G-RF	.2749589E-03	SIG-U	.3106807E-02	SI6-V	.2344349E-02	N-918	.1528464E-02
MACH A	. A534320E+00	MACH D	.8772488E+00	PINF	.1579905E+05	TEMP	•2146347E+03
1	.2564297E+U0	A C	.8052368E+04	<u>م</u>	.8508076E+04	PSTAG	.2542953E+05
	1434383E+01	o	2672242E-01	α	1630131E+00	X ACCEL	1993312E+01
ACCEI	6236193F-01	7 ACCEL	9769050E+01	CXB	8933795E-01	СҮВ	2794990E-02
C7 B	4378376E+00	CL	.4215645E+CO	00	.1482109E+00	1.70	.2844356E+01
CL -RULL	4251899E-03	CM-PITCH	.6985724E-03	CN-YAW	.1151737E-03	POOT	9585836E+00
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			LIAMAGE STANENTOS DINAMA DA LA	EULUS DINA	Me DATA		# C7 # DVC
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122							**********
TIME	.2075000E+04	VEL A	.2467664E+03	GAM A	1503849E+02	HDG A	. 11 361 00E+03
ALTDE	.1315710E+05	LATD	.3492785E+02	LONG	.2422578E+03	3	3702808E+01
BETA A	4605349E+JO	ALPHAA	.7465637E+01	YAW E	. 1125846F+02	OTCH	76677036403
ROLL E	3727873E+01	n	9002325E+02	ı	4115245E+03	- U - U - N - N - N - N - N - N - N - N	
VEL R	.2542455E+03	SAM R	14586135+02	a Sum	11144126403		20402/931402
BETA R	2507079E+01		. 68904035+01		- 542414415ETUS	O L GHAR	3168323E+01
CNINI	0.	016-VA	22578515-62	OLUMN OF THE	10110011776	CATALA	1062500E+02
SIG-H	.3185459F+30	716-1 A	26801585-05	01010A	-344/380F-03	S 16-HA	•6830756E-03
SIG-BA	1145725F-J3	STG-04	24025405-03	OTC-VE	11621745-02	216-5A	1163146E-02
SIG-RE	.2693560E-03	516-11	- 3306287E-02	71-016	227.00245.02	14-91	1145725E-03
MACH A	.8412445F+30	A TON	86676165400	DINE	70-107004674	×-010	•1495093E-02
RHO	.2705402F+00	1	82370865+04	9 0	07430635	TEN P	-2141804E+03
۵	2632343F+00		- 2172862E+00	1	200000 E 00		.2643572E+05
Y ACCEL	.7561377F-01	7 ACCEI	• •	۷ ۵ × ن	-• C839084E+00	ACCEL 6 YB	1794663E+01
CZ 8	4213356F+00	!	4075 4 40 E + OO		100230ZE-UI	LYB	• 3312590E-02
CL-ROLL	3168829F-04	TOTT G-MC	- 42331045-03	2 × 1 × 1	1303/005 00	azz	-3070988E+01
TOUG	6297961E=01	Phot	4.2010000		1343408E-03	Poul	8142053E-01
TIME	\$208000E+34	VEI A	-2432110E+03	× 3× 0	16660707		
AL TDE	*1283252E+05	LATO	3492387E+02	IONC	27.2240E+02	HUG A	•1132133E+03
BETA A	9262881E-01	ALPHAA	.7261181E+01	A A A Y	11212546403	DIGHAA	141464ZE+01
ROLL E	1401352E+31		8758901E+02	i	410207 EF : 03	ב בורם ב	8298216E+01
VEL R	.2525125F+03	G MAG	14972445402	0 000	* 0102045E+U3	A	•6523857E+02
⋖	2174820F+91	-	. 66329985±01		41110425E+03	SIGMAR	8544291E+00
ONIN-H	0.	STG-VA	2302836E-02	CIGACA	2/15/51/00	ONTA-A	1234213E+02
SI 6-H	.3150216E+00	7 TG-1 A	26402775-05	O T C T C	43412421E=03	AH-STC	.7215041E-03
ST G-8 A	11654546-03	01010	24646015-02	11-315	• 4 18 2 46 ZE - 02	S16-5A	.1168285E-02
01 G-0 E	24848016-03	010 HA	26166611	216-YE	.1168285E-02	SIG-PE	.1165454E-03
MACUA	\$0-1000 7000 \$000 7000	-	.3510298E-02	516-V	.2340284E-02	SIG-W	*1464186E-02
_	* 05 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	•	.8611811E+0C	u Z L d	.1751372E+05	TEMP	.2140075E+03
RHU	* 2850931 E +00	0 A	.8431853E+04	α ο	.9089128E+04	PSTAG	*2750062E+05
1	• 125332E+90	C	.4758214E-02	8	•8970993E-01	X ACCEL	1847431F+01
TALLET	3042032E-01	7 ACCEL	9556730E+01	CXB	7905727F-01	CYB	1303064F-02
977	4084618E+00		*3956898E+C0	CD	.1301130E+00	7.70	.3041125F+01
בר-אחדר	* 16 /6 /60E-33	CM-PITCH	6716754E-03	CN-YAW	.2931866E-03	PDOT	-4132053E+00
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TIME	.2095000E+04	VEL A	-2359809E+03	N V	1433100100	- 1	
ALTDE	11839516+05	LATD	. 3491311F+02		27.3207EF - 02	HUG A	.1058486E+03
RETA A	1152729E+30	ALPHAA	71390745+01	VAU	463072E+0	SIGMAA	2853673E+02
ROLL E	2778574E+J2		60271405+02	, , , , , , , , , , , , , , , , , , ,	*1024424E+03	PICH E	9870834F+01
VEL R	.2464112E+03	G MAS	ָ ער פּי	i	*0121/30E+03	A	.6591960E+02
BETA R	7478876E+00	17		A 500	• 104 /054E+03	SIGMAR	2823274E+02
ONINIX	0.	015-VA	25200135	ON SEC	1608481E+01	ONIMO	1167938E+02
SIG-H	-3054854E+00	010-VA	370054175-02	V 6-6A	•3325823E-03	S IG-HA	.4182796E-03
SIG-BA	-2814078F-03	7 - OTO	220100100	216-10	.4383292E-05	SIG-SA	.1157716E-02
SIG-RF	-2201030E-03	CTC-11	422019395-03	S16-YE	.1157716E-02	SIG-PE	•2814078E-03
V ICVX	90375505	D	•4121225-02	λ-91S	•2229244E-02	SIG-W	-1359489F-02
1	233000E-00	₫	•8382376E+00	-	.2050427E+05	TEMP	-7150993E+03
	• 3320700E+30	A .	.9246261E+04	α Or	*1008169E+05	PSTAG	3134124E+05
1100	26/2/16E+01	- 1	.5487227E+00	ď	1398C91E+01	X ACCE	20821465401
CAD CEL	6395231E-03	7 ACCEL	1063950E+02	CxB	R126793F-01		• •
277	4150656E+00	10	.4017480E+00	۵۵	•1322215F+00	0)	303877270
- KULL	40/3/245-04	CM-PITCH	7760754F-03	CN-YAW	-9634598F-04	DUUT	101111111111111111111111111111111111111
1.00	7478406E-01	RDOT	.5057041E-01				10-37057704
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1 H L	.2100000E+04	VEL A	.2333929E+03	GAM A	1473317F+02	A SOH	CO.75C.20C
LÍ.	115C682E+05	LATD	.3491100E+02	LONG	.2423201E+03	STEMAA	- 36636715402
اب	(622/85E+00	ALPHAA	.6786658E+01	YAWE	94778425+02	PTCHE	- 10807626402
-4	3584810E+02	- 1	3239648E+02	>	-6147599F+03	3	
VEL K	.2439341E+03	GAM R	1599021E+02	HDG R	.9794102E+02	CTCMAD	201171705-02
BE IA K	5771324E+30	AL PHAR	•5998719E+01	CNI M-D	-2255337E+00	VEUTNO	1104/30F-02
ON 3 - 3	0.	SIG-VA	•2703360E-02	SIG-GA	. 3326752E-02	OT C-UA	- 11004 (UE+UZ
N-9-10	*3024501E+00	SIG-LA	•2750450E-05	SIG-LO	-4449531E-05	OT G-CA	1134300F 03
216-8A	.3537017E-03	SIG-AA	.1811541E-03	SIG-YE	-1136298F-62	010-01	2622636
~!	•1811541E-03	STG-U	.4250102E-02	SIG-V	.2194557E-02	V 10-1	1310E1E 03
HACH A	. 7923556E+30	MACH R	.8281426E+00	TZLO	-2161047E+05	TEMD	20-101/01/10
DHA	•3485895E+00	O A	.9494220E+04	0	10371215+05	DOTAC	22402626.05
	2430916E+31	0	.9218689F+00	α α	1609248E+01	A ACCES	310, 635 + 02
ACCEL	•1374125E+00	ZACCFL	1107960E+02	CX B	7994746F-01) Σ α	E336363C 03
877	4209025E+00	C	+4085056E+00	CD	12012455400		•263232/E-UZ
CL-ROLL	.1838864E-03	CM-PITCH	4567767E-03	- N - N - N - N - N - N - N - N - N - N	33773300	-1.0	0300/E+
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			201100117000	4 3 4 (- 17646116+02	A 20H	.8860740F+02
TIME	• 2105000E+04	VEL A	443001006403	10	2423328F+03	1 3	4231203F+02
ALTDE	• 11162646+02		354320205454	VAL 6	8345055E+02	PTCH F	1181180E+02
_	242662/25400	ALYJAA	1043632(640)		.6123155F+03		.6990047E+02
KULL E	204264646	O MAG	1691665F+02	HDG R	.8951550E+02	SIGMAR	4258202E+02
DETA 0	8251424F+00	17	.7590744E+01	1	.3397567E+01	GNIM-7	1011911E+02
	0	0.1G-VA	.2445347E-02	SIG-GA	.3642112E-03	SIG-HA	.9899552E-03
	0043778E+00	STG-1 A	.2805333E-05	SIG-LD	.4513114E-05	SIG-5A	-1196901E-02
STG-BA	1211360F-03	STG-AA	.1844115E-03	SIG-YE	.1196901E-02	SIG-PE	1211360E-03
010-0E	18441158-03	V16-11	.4225278E-02	V-918	.2313951E-02	SIG-W	.1286057E-02
A 17 A M	78087145+00	MACH	.8134058E+CO	PINF	.2281211E+05	TEMP	.2171057E+03
1	3460424E+00	1	.9733731E+04	S S	.1056172E+05	PSTAG	.3412522E+05
	- 4410640F+00	1	. 9000140E+00		1653261E+01	X ACCEL	2262073E+01
1 U U V	10156625406	7 ACCE!	1209919E+02	CXB	83R1025E-01	CYB	.7097567E-02
7 B	44827735+30		.4333981E+00	CD	.1419252E+00	1.60	.3053707E+01
1 1 2 2 1 1	3029103F-03	CM-PITCH	3228905E-02	CN-YAW	.6586793E-04	PDQT	.8429706E+00
QDOT	5605930E+00	RDOT	.5111304E-01				
	707100.0116	VELA	22441815+03	SAM A	1836252E+02	HDG A	_7798294E+02
LAE	+0100001124	VEL A	24011225402		24234515+03	SIGMAA	-,4473723E+02
18	16606765400	A N D L A	82540625+01	7 WAY	.7192275E+02	PICH E	1252528E+02
	4.2109105432	HELLAR	4006196F+02	1	.6025481E+03	7	.7139110E+02
אחרר ב	22481001442	O M V	1770021F+02	HDG R	.7968313E+02	SIGMAR	4527498E+02
	17754705+01		. 8929199F+01	ONIM-O	.4718180E+01	QNIM->	9712532E+01
CNLTI	0.	016-VA	.2780893E-02	SIG-6A	.3745714E-03	SIG-HA	*9260344E-03
7 5 - H	2957853F+0C	SIG-LA	.2867891E-05	S16-10	-4574049E-05	S16-5A	1188317E-02
CT G-B A	11189825-03	SIG-AA	.1688187E-03	SIG-YE	.1188317E-02	SIG-PE	,1118982E-03
016-0F	16881875-03	516-11	.4024472E-02	SI6-V	.2624459E-02	SIG-W	.1274018E-02
MACHA	74484975+00	MACH R	. 7925010E+00	JA I d	.2411141E+05	TEMP	.2185190E+03
i	386288E+00	1	-9870287F+04	α σ	.1059686E+05	PSTAG	*3551464E+05
2	- 8228801E+00	1	14813905+01		1910074E+01	X ACCEL	2282862E+01
1000	14411245+00	7 ACCEI	1264650E+02	CX B	8340104E-01	CYB	\$264937E-02
7 8 7 7	4420215F+30	ì —	.4452622E+00	αo	.1488662E+00	1/0	*2991023E+01
100-10	1444049F-03	CM-PITCH	.1591803E-02	CN-YAW	.2318431F-05	PDOT	3863234E+00
		000	10718805-01				

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17++			THE COLUMN TWO IS NOT THE PARTY OF THE PARTY				
100	*C112000E+04		.2216424E+03	GAM A	1903967E+02	HDG A	. 6597072E±02
· I	.1045191E+US		-3491395E+02	TONG	.2423566F+03		- 46743305.03
┛	1912140E+00	ALPHAA	.7823804E+01	YAW E	*6025201F+02	PTCHE	-13660405402
-4	4517301E+02		-8064308F+02	۸	.5841104E+03	1	72206775.02
α	.2289192E+03	GAM R	1841231E+02	HDG R	-6820516F+02	OTCMAD	- 17.05435.00
BETA P	•1708288E+01	ALPHAR	.8948004E+01	_	.4672977F+01	VI VI V	- 10215015+07
ONTAIN	0.	S16-VA	.3223826E-02	SIG-6A	.3945006E-03	A 1 5 1 0	01044075
H-915	.2917808E+00	SIG-LA	.2930334E-05	SIG-1 D	4633716E-05	CTC-CA	*01000VC=03
516-8A	•1130537E-03	SIG-AA	•1540225E-03	SIG-YE	-1156459F-02	7 T G- DE	11206276-02
Ω	*1540225E-03	0-91S	.3636919E-02	V-918	3098136E-02	0.1017	12012505
MACHA	.7452458E+00	MACH R	.7697131F+00	TNI	2548294E405	TEND	220: 20E -02
RHO	•4032072E+30	A C	. 9903843E+04	α	10564835405	0011	2201703E+03
	7304776E+00	O	.1452198F+01	Į.	-17525425401	X Y Y Z	- 3584309E+05
Y ACCEL	.5062470E-01	Z ACCEL	1270467E+02	a × C	- 80065625-01	اد	< 1 48 706 + 401
CZB	-+4625223E+00	ว	.4473205E+00	2		97.	-1843027E-02
CL -ROLL	-4820066E-04	HULL G-WU	1337887E-02		12,003,5	777	.3144339E+01
1000	2224243E+00	RDJT	-8038395F-01	# W 1	•1 (*UVC*E=U3	1002	•1594822E+00
TIME	.2120000E+04	VEI A	.2182962E+03	GAM A	2020859F+02	HOG A	84110001100
	*1C08376E+35	LATD	.3491839F+02	너	*2423670F+03	3	44410606402
	1571749E-01	AL PHAA	.8077646E+01	YAW E	-4808641E+02	PTCH	- 14531355403
4	4460958E+32	n	.1158470F+03	>	■5582153F+03		75408005402
Y	. 2236523E+03	GAM R	1970432E+02	HDG R	. 5661964E+02	CTGMAR	- 47200555402
BELA K	1965245E+31	ALPHAR	-9453700E+01	U-WIND	•4246087E+01	ONIM-A	
		SIG-VA	-3636385E-C2	SIG-6A	.4177336F-03	SIG-HA	. 6041783E=03
10 710	110/0E+00	SIG-1 A	*2984393F-05	SIG-10	*4695095E-05	SIG-5A	1128750E-02
CTC-DE	11243(RE-03	SIG-AA	.1481257E-03	SIG-YE	.1128759E-02	SIG-PF	-1124376E-03
A TOWN	7567677 F-03		-3140693F-02	SIG-V	.3576895E-02	M-918	.1375190E-02
PALA A	1407976-+30	MACH R	.7487285E+00	PINE	*2696951E+05	TIME	22210005403
מבא	• 4230191E+00	0 A	.1007911E+05	8	.1057978E+05	PSTAG	28470045+05
2	1785909E+00	- 1	•1807617E+01	~	1816909F+01	X ACCE!	- 2387455401
T ALLEL	. 1599620E-01	ZACCEL	1278674E+02	CXB			.2718260E-02
877	4573622E+00	J	*4409759E+00	c)	•1477521E+00	0/-	20845462401
CL-KULL	2492853E-04	CM-DITCH	.8167056E-03	CN-YAW	•1325956E-03	PDOT	43845405-01
1000	• 1280+08E+30	RDDT	•5165870E-01				

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TIME	2125000E+04	VEI	-2140772E+03	GAM A	2033346E+02	HDG A	•4185173E+02
ALTOF	. 9710771F+04	10	492432E+0	S	.2423757F+03	SIGMAA	4309691E+02
RETA A	3622205F-01	ALPHAA	. 7951740E+01	YAW E	.3627837E+02	PTCH E	-11441957E+02
1	4143153E+0	1	.1463142E+03	^	. 5249712E+03	3	.7438825E+02
~	.2174494E+03	GAM R	2000454E+02	HDG R	.4426910E+02	SIGMAR	4395130E+02
BETA P	.1835640E+01	ALPHAR	.9275030E+01	ONIM-D	.32096815+01	V-WIND	8695143E+01
1 -7	0	SIG-VA	.3988517E-02	SIG-6A	.4422844E-03	SIG-HA	.5810013E-03
ST 6-H	.2817860E+30	SIG-LA	.3022386E-05	SIG-10	•4761694E-05	SIG-SA	.1081738E-02
STG-RA	40896433F-04	SIG-AA	.1472027E-03	SIG-YE	.1081738E-C2	SIG-PE	.9896433E-04
AT G-DF	.1472027F-03	ST6-U	.2621001E-02	V-918	• 4014001E-02	SIG-W	.1492947E-02
V I L V W	71319746+00	MACH R	.7244319E+00	PINE	.2854919E+05	TEMP	.2242712E+03
1	4434632E+00	A 0	.1016174E+05	ď	.1048441E+05	PSTAG	.4007348E+05
	1025515F+01	0	.1515592E+01	œ	1385510E+01	X ACCEL	2342116F+01
Y ACCEL	2625912F-01	7 ACCE1	1294187E+02	CXB	8308293E-01	CYB	-,9315016E-03
1			.4431850E+CO	دن	.1457945E+00	٦/١	.3039792E+01
CI - RO11	.1342718E-03	CM-PITCH	.1520310E-02	CN-YAW	.6746052E-03	POOT	.4421591E+00
00 O T	.2621064E+30	RDOT	•2276835E+00				
TIME	-2130000F+04	VEI A	-2099217E+03	GAM A	1991851E+02	HDG A	.3144779E+02
AI TOF	0348694F+04	IATO	.3493141E+02	LONG	.2423826E+03	SIGMAA	-,3719958E+02
RETA A	4636042F+30	ALPHAA	.7224272E+01	YAW E	.2728551E+02	PTCH E	1387611E+02
ROLL F	3601309E+02	n	.1671202E+03	>	.4917826E+03	3	.7151683E+02
α	.2122093E+03	GAM P	1969486E+02	HDG R	.3323208E+02	SIGMAR	3780910E+02
_	1064315F+01	AL PHAR		ON IM-D	.1254029E+01	CNIM->	6525143E+01
CNINI	0	SIG-VA	.4204917E-02	SIG-GA	.4612757E-03	SIG-HA	.5307438E-03
H-517	.2757436E+00	STG-LA	.3040379E-05	SIG-LO	.4836598E-05	SIG-SA	1036670E-02
STG-RA	8253380F-04	SIG-AA	.1560207E-03	SIG-YE	.1036670E-02	SIG-PE	.8253380F-04
STG-RF	.1550207E-03	SIG-U	.2281937E-02	N−9 I S	.4306174E-02	SIG-W	,1617469E-02
A HOAM	.6958023E+00	MACH R	.7033845E+00	PINE	.3015476E+05	TEMP	•2265663E+03
1	.4636581E+00	Φ 0	.1021604F+05	a c	.1043990F+05	PSTAG	.4167168E+05
a	-2157004E+00	0	.1067640E+01	α	-,1337004E+01	X ACCEL	2558475E+01
Y ACCEI	.2640917E-02	ZACCEL	1230728E+02	C x B	9026527E-01	CYB	.9317389E-04
1	4342117F+00	CL	.4194136E+00	۵۵	.1441523E+00	1/0	.2909516E+01
C1 -P L	2062093E-J4	CM-PITCH	.2483841E-03	CN-YAW	.9113440E-04	PDOT	-,4513751E-01

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	A A - A - A - A - A - A - A - A - A - A						
1 4 4 5 F	•2135000E+04	VEL A	-2057819E+03	GAM A	1940306E+02	HDG A	.2201309F+02
ALIDE	*3000416E+04	LATD	.3493923E+02	LONG	*2423877E+03	SIGMAA	3283671E+02
	4152685E+00	ALPHAA	.7361588E+01	YAW E	*1828068E+02		1295847E+02
-4	3182134E+02	n	.1795585E+03	>	•4603599E+03	3	. 6836211E+02
α	.2074098E+03	GAM P	1924475E+02	HDG R	.2351456F+02		- 32324075402
BETA R	.8582939E+00	ALPHAR	.8002422E+01	ONIM-D	.3861933F+00		-1
CNIMI	0.	SIG-VA	.4299323E-02	SIG-6A	-4734674F-03		•
SIG-H	.2691627E+00	STG-LA	.3039692E-05	016-10	40214085-05	010-010	00.25.37
SIG-RA	.7681343E-04	SIG-AA	*1628169F-03	SIG-YE	08625175-02	O TO DE	3,64321/E-03
SI G-R E	.1628169E-03	11-915	-2152884E=02	210	2,423,500	14-910	* (BB1343E-04
MACH	-6785461 E+00	OHUV	68301405400	9 T L L	- + +0<1.20E -0<	M-91	-1731324E-02
1	00.13604644	i i	103361405400	7 L R L	• 31/6/34E+05	TEMP	•2289327E+03
	25370415430	9	10235156+05	2 0	.1039773E+05	PSTAG	4323926F+05
1	*1574230E+01	- 1	.9243203E+00	8	9884641E+0C	X ACCEL	2540579F+01
ALLEL	.4820855E-01	ZACCFI	1241746E+02	CXB	8945654F-01	CYB	16974775-02
H 7 1	43723295+00	3	-4221667E+CC	g	1447422F+00	1 70	. 201 66 70E ± 01
בר - אחרו	2059534E-04	CM-PITCH	1525805E-02	CN-YAW	-1120660E-03	TUGG	10-776687 -
ODUIT	3128011E+00	RDUT	.1807201E-01				
100	*2140000E+04	VEL. A	.2018042E+03	GAM A	1892739F+02	HDG A	13979625+02
1	* B669639E+04	LATD	· 3494746E+02	IONG	.2423912E+03	SIGMAA	- 30182016+02
_	2629628E+00	ALPHAA	.7086711E+01	YAW E	-1056674F+02	PTCHE	- 12661055403
	2926829E+32	n	*1852533E+03	>	-4330167E+03	1	70.15.03.37
VEL R	.2029501E+03	GAM R	1881650E+02	HDG. P	15347115+02	CICHAD	20/2251
BETA R	.9091872E+00	ALPHAR	.7645963F+01		- 1 44 404 45 - 01	V-UTNO	3062/31E+0Z
W-WIND	2.	\$16-VA	.4298669F-62	016-6A	4.7001345-03		4/28085++01
S16-H	*2621845E+00	SIG-LA	.3022598F-05	016-10	50170405-05	O T C C A	-28090/1E-03
SIG-BA	• 7140633E-04	SIG-AA	-1690925E-03	CTC-VE	20-10727	AC=016	5446/69E-03
SI G-RE	.1690925F-03	11-510	21888015	7 - 010	50-101010	316-75	• /1 40633E-04
MACH A	-6620019E+00	MACH D	7007100	V = 0 1 C	-+202180E-0Z	V-910	.1821122F-02
Ì	-5024404	1	1033131100	-4	• 3336179E+05	TEMP	.2313099E+03
۵	4511446400	1	63631115+05	×	.1034762E+05	PSTAG	• 4476726E+05
	00101011101	3	• 8547408E+CO	~	1386719E+01	X ACCEL	2479713E+01
1	- 135781E+00	2 ACCEL	1134755E+02	CXB	8733884E-01	CYB	. 4003194F-02
	- 3446759E+00	13	.3858475E+00	03	.1359802E+00	0/7	- 2837528E+01
בר-אמר	1434641E-03	CM-PITCH	.4404555E-03	CN-YAW	3004367F-03	POUT	- 42740345+00

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TTME	-2145000E+34	VEL A	.1983472E+03	GAM A	1849241E+02	HDG A	•5171899E+01
ALTDE	-8351901E+04	LATO	.3495586E+02	ں ا	•2423932E+03	SIGMAA	3368384E+02
BETA A	4271905E+00	AL PHAA	.7064154E+01	YAW E	.1530117E+01	PTCH E	1234638E+02
1	-,3274023E+02	Ŋ	.1876763E+03	۸	.4029698E+03	3	.6291157E+02
VEL R	•1990356E+03	GAM R	1842614E+02	HDG R	.6340664E+01	SIGMAR	3405443E+02
BETA R	.5302548E+30	ALPHAR	.7626964E+01	U-WIND	3364864E+00	ONIM-A	3897865E+01
CZIZIZ	• 0	SIG-VA	.4237903E-02	SIG-GA	.4832017E-03	SIG-HA	.6530597E-03
SI 6-H	.2549131E+JO	SIG-LA	.2990671E-05	SIG-10	.5122362E-05	SIG-SA	.8785243E-03
SIG-BA	.6900241E-04	SIG-AA	.1599824E-03	SIG-YE	.8785243E-C3	SIG-PE	*6900241E-04
SIGHRE	.15998246-03	0-91S	.2368522E-02	SIG-V	.4489733E-02	SIG-W	.1918466E-02
MACH	.6473246E+00	MACH R	.6495714E+0C	PINF	.3495250E+05	TEMP	.2337007E+03
1	. 52102136+00	Φ O	.1024890E+05	a 0	.1032017E+05	PSTAG	.4632426E+05
a	7369798E+00	1	.9769545E+00		-1500188E+01	X ACCEL	2202831E+01
Y ACCEL	.27388416-01	ZACCEL	1174888E+02	CXB	7744419E-01	CYB	.9628854E-03
CZB	4130514E+30		.4603918F+C0	g	.1276536E+00	1.70	-3136549E+01
CL-ROLL	2130193E-04	CM-PITCH	8946711E-04	CN-YAW	1074350E-03	PDOT	6098248E-01
1000	,1432093E-02	RDOI	2873278E-01				
TIME	-2150000E+34	VEI A	.1961566F+03	GAM A	1850117F+02	HDG A	4005606E+01
AI TOF	-8043193E+04	IATO	-3496430F+02	I L'NG	.2423935F+C3	SIGMAA	- 3334206E+02
RETA A	3122412E+00	AL PHAA	. 6972280E+01	YAW F	7658080E+01	P T CH E	-1247335E+02
•	3238412E+02	U	.1862269F+03	>	-3719502E+03	3	.6224523E+02
VEL R	.1956141E+03	GAM R	1845657E+02	HDG R	3106688E+01	SIGMAR	3362740E+02
BETA R	.4234396E+00	ALPHAR	.7405453E+01	ONIM-D	6626362E+00	V-WIND	2886669E+01
CZIZIZ	•0	SIG-VA	-4112971E-02	SI G-GA	4854702E-03	SIG-HA	-7475878E-03
H-9IS	.2473670E+30	SIG-LA	.2941752E-C5	SIG-10	.5236379E-05	S16-5A	8084714E-03
SIG-BA	.7803622E-04	SIG-AA	.1632348E-03	SIG-YE	.8084714E-03	SIG-PE	. 7803622E-04
SIG-RE	.1632348E-03	SIG-U	.2679571E-02	SI G-V	.4407053E-02	S16-W	.2013818E-02
MACH A	.6369000F+30	MACH R	.6383853E+00	PINE	.3655282F+05	TEMP	.2361108E+03
вно	.5393148E+UO	Q A	.1037572F+05	α σ	•1042417E+05	PSTAG	.4802764E+05
ď	1346463E+00	Ö	.1092671E+01	∞	1495973E+01	X ACCEL	1974018E+01
Y ACCEL	7250380E-01	Z ACCEL	1132258E+02	CXB	6854497E-01	CYB	2517592E-02
678	-,3931606E+00	CL	.3819326E+00	go	.1157635E+00	٦/٦	.3299249E+01
C1 -8 11 1	8358656F-04	PALDITUM	.4777111F-03	AV YING	.5300348F-03	PDOT	.2896343E+00

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TIME	.2155000E+04	VEL A	.1947706E+03	GAM A	1826025F+02	HOG A	12R5635E±02
ALTOE	.7738016E+04	LATD	.3497257E+02	PNOT	.2423921F+03		3001467E+02
_	1237076E+30	ALPHAA	.7255140E+01	YAW E	1655096E+02	PTCH E	1194008F+02
	2995927E+02	n	.1809155E+03	٨	.3429674E+03		-6102817F+02
VEL R	.1948807E+33	GAM R	1824957E+02	HDG P	1217530F+02	SIGMAR	3112890E+02
BETA R	•4366651E+00	ALPHAR	.7579313E+01	U-WIND	5897578E+00	CNIX->	2121864E+01
CNIMI	• 0	SIG-VA	.3099361E-02	SIG-GA	. 5050888E-03	SIG-HA	.1339079F-02
SIG-H	.2396464E+00	SIG-LA	.2877741E-05	216-10	•5357223E-05	SIG-SA	-1320744E-02
SIG-BA	.1401436E-03	SIG-AA	1688420E-03	SIG-YE	-1320744E-02	SIG-PE	*1401436F-03
SIG-RE	.1688420E-03	SIG-U	*3034196E-02	SIG-V	.4258239E-02	N-9IS	.2090572E-02
MACH A	.6291328E+00	MACH R	€6294884E+00	PINE	-3819019E+05	TEMP	*2385692E+03
UHa	*5576667E+00	0 A	.1057770E+05	a. O	.1058966E+05	PSTAG	. 4986026F+05
	3649975E-01	o	.9825599E+00	R	1364922E+01	X ACCEL	1558181E+01
YACCEL	1412550E-01	Z ACCEL	1112048E+02	CXR	5306736E-01	CYB	4810757F-03
673	3787330E+00	7	.3689989E+00	CD	*1004719F+00	L/D	.3672658F+01
CL-PULL	.1497550E-03	CM-PITC4	.1259251E-02	CN-YAW	.1317909E-03	PDOT	-4629733E+00
1000	, 2661954E+00	RDOT	.6053606E-01				
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TIME	.2160000E+04	VEL A	.1959971E+03	GAM A	1803491F+02	HOG A	2082121E+02
ul	*7435581F+04	LATO	43498058F+02	LONG	.2423893E+03	SIGMAA	2777454E+02
- 1	•3669738E-01	ALPHAA	.7318796E+01	YAW E	2432777E+02	PICH E	1154751F+02
-4	2687528F+U2		•1743747E+03	٨	.3172440E+03	3	-6068000E+02
~	.1956397E+03	GAM R	1805899E+02	HDG R	2035739E+02	SIGMAR	2791919E+02
BETA R	-4107028E+30	ALPHAR	*7554909E+01	U-WIND	1781805E+00	V-WIND	1543055E+01
CNIN	0	SIG-VA	-3428886E-02	SIG-6A	.5175612E-03	SIG-HA	-1296170E-02
H-916	•2318596E+00	516-LA	.2802175E-05	S16-LD	.5482877E-05	SIG-SA	.1316461F-02
51 G-BA	•1490320E-03	SIG-AA	.1625006E-03	SIG-YE	.13164616-02	SIG-PE	.1490320E-03
OX.	•1625006E-∪3	\supset	•3380112E-02	SIG-V	. 4092646E-02	SIG-W	.2151552E-02
MACH A	•6298034E+00	MACH R	.6286552E+00	PINF	.3986746E+05	TEMP	.2410690E+03
RHD	•5761219E+00	A 9	•1106582E+05	0 R	.1102550E+05	PSTAG	.5207857E+05
-	.4094281E+00	0	.7654878E+00	لم	1188973E+01	X ACCEL	1393933F+01
YACCEL	5113859E-01	ZACCEL	1153740E+02	CXB	4537510E-01	CYB	
CZB	3755637E+00	บ	.3667235E+00	as	.9284840E-01	٦/١٥	.3949702E+01
CL-ROLL	7366069E-04	CM-PITCH	.1582248E-02	CNITAN	7012300F-04	PhnT	- 22952555+00
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1 1 2 1	2165000E+04	VEI A	-1966564E+03	GAM A	1690225E+02	HDG A	2872633E+02
TOUR TOUR	7144728E+04	1 ATO	.3498821E+02	ں ا	.2423850E+03	SIGMAA	2736610E+02
	- 1298804E+D0	A I PHA A	.6607073E+C1	YAW E	3169758E+02	PTCH E	1095563E+02
PO1 F	2445725E+02		.1641136E+03	^	. 2927531E+03	3	.5717584E+02
Ω	1953157E+03	G ₩ Q	1702180E+02	HDG R	2850899E+02	SIGMAR	2742928E+02
	- 3228438F-13		*6803868E+01	U-MIM-N	.8898113E+00	V-WIND	1295541E+01
LIND	0.	\$16-VA	.3743820E-02	SIG-GA	.5283947E-03	SIG-HA	.1232972E-02
N T W T L	2241023E+00	016-1 A	-2718458F-05	516-10	.5611169E-05	SIG-5A	.1309172E-02
01 G-0 A	14981845-03	V 1 5 - V V	.1581591F-03	SIG-YE	.1309172E-02	SIG-PE	.1498184E-03
CICLDE	1581501E-03	016-11	3708993F-02	S16-V	.3863608E-02	N-918	.2192780E-02
V - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	4287207E+00	M H J V W	. 6244435F+00	TZ LG	.4153253E+05	TEMP	.2435232E+03
D LO	50413526+00	1	-1148871F+05	a .	.1133260E+05	PSTAG	.5420612F+05
01	31757205+00		.3598720F+00		1174512E+01	X ACCEL	1625025E+01
- U U U X	40176325-01	7 ACCFI	1058562E+02	CXB	5094576E-01	CYB	1259558E-02
1	4218671E+00	I —	.3238012E+00	CD	.8879196E-01	1.70	.3646740E+01
- 108-10	8532462E-04	CM-PITCH	.7351662E-03	CN-YAW	8137558E-04	PDat	*2724615E+00
QD JT	.150G560E+30	RDDT	2774456E-01				
TIME	21700005+04	VE! A	.1958898F+03	GAM A	-1618390F+02	HDG A	3583436E+02
A1 TOE	A865020E+04	IATO	34995326+02	U	.2423796E+03	SIGMAA	2464264E+02
RETA A	2823937F+00	AI PHAA	.6759251E+01	YAW E	3895121E+02	P TCH E	1013683E+02
1	2391517F+02		.1513690E+03	^	.2724963E+03	34	.5459832E+02
10	.1945515E+03	GAM R	1629821E+02	HDG R	3584383E+02	SIGMAR	2464044E+02
<	2254336F+00	AI PHAR	.6859462E+01	U-MIND	.1148107E+01	ONIM-A	7910537E+00
	0	SIG-VA	.3983120E-02	SIG-6A	.5353509E-03	SIG-HA	1157764E-02
7 TG-H	.2164930E+00	SIG-LA	.2630902E-05	216-10	₹5739456E-05	SIG-5A	1294739E-02
STG-RA	15808175-03	SIG-AA	.1482728E-03	SIG-YE	-1294739E-02	SIG-PE	1580817E-03
016-0F	14827284-03	ST6-U	.3959037E-02	216-V	.3601674F-02	N-918	.2205908E-02
MACH	.6232280E+00	MACH R	.6189703E+00	PINF	.4317716E+05	TEMP	•2459133E+03
UHO	.6116589F+JQ	4 0	.1173553E+05	0 R	.1157573E+05	PSTAG	.5610120E+05
	22571496-01	O	.6413199E+00	8	1281829E+01	X ACCEL	-,1605622E+01
7 V C E -	4306237F-01	7 ACCEL	1132067E+02	CXB	4927441E-01	CYB	1321527E-02
	3474164F+00	13	. 3392022E+00	93	89822055-01	7.00	.3776380E+01
- FD - 1	3833380F-03	CM-PITCH	7804519E-03	CN-YAW	4850718E-03	PDOT	1300338E+01

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TIME		VEL A	•1936263E+03	GAM A	1557650F+02	V 20H	20110110027 -
ALTDE	• 6602553E+04	LATO	.3500176F+02	- ONG	24237215403		2044054
BETA A	.2592377E+30	AIDHAA	. 4882145E101		47756646	Ì	-•3133378E+0Z
ROLL E	3047370F+02		13330435403	A 10 1	+(.3281E+02	PICH F	9797561E+01
VEID		2 3 3 3	12320035403	A	•2522921E+03	3	•5199345E+02
1 <		SAT K	1263023E+02	HDG R	4417572E+02	SIGMAR	3125793E+02
CALLIA	27-3000ECT4	AL DARK	.6787347E+01	ONIM-	.1119707E+01	V-WIND	.1885675F+00
		516-VA	.4210337E-02	SIG-6A	.5407738E-03	SIG-HA	-1058081F-02
010		S16-1.A	-2543605E-05	216-10	.5865127F-05	SIG-SA	.1273272E-02
A d d d		516-A4	.1558852E-03	SIG-YE	-1273272E-02	SIG-PF	-1857379E-03
3 10 - K E		_	.4197093E-02	S16-V	-3262710F-02	STG-W	-21073025-02
MACHA		MACH R	.6111292E+00	PINE	.4477530F+05	TEMP	27.810805403
NH N		O A	.1178083E+05	2	.1170198F+05	PCTAG	57700015105
a		0	-9787010F+00	02	-114325815+01	13004 >	34330075.00
YACCEL		Z ACCFL	1161465E+02	CXB	4927234E-01	C V B	23033055
6Z8	-*3550381E+00	13	*3465758E+00	CD	01640625-01		220277
CL-ROLL	*2182379E-ú3 (CM-PITCH	.2719967F-63	N A Y - N C	5005031F.00	1000	4 3 7 8 4 4 4 4 4 1
QDOIL	.6299879E-01	PDUT	■4401365E-01		+0-317071c-04	וחמג	• (367375E+00
TIME	.2180000E+04	VEL A	19120595+02	A M A C	40. 1994		
AL TOE	•6349454E+04	LATO	35007255+02	A JANO	2/32/55F +02	HUG A	5319609E+02
BETA A	10186775+30	AL PHAA	46746725+01	•3	*C424032++03	SIGMAA	3057229E+02
ROLLF			100300000000000000000000000000000000000	7 M P .	5654262E+02	PTCH E	9357023E+01
VELR		0 W V U	15100525.03		•2336144E+03	3	.5005982E+02
1		- (2042760767	HUG K	5345501F+02	SIGMAR	3050492E+02
12		1 1 1 A X	4022/143E+01	QNIM-D	.7519809F+00	V-WIND	.3859021E+00
0 1 G - H	20211475400	7 - 7 - VA	• 4392894E-02	SI 6-6A	•5433291E-03	SIG-HA	.9391254E-03
0.T.CD.A		A1-916	*2429202E-05	SIG-10	.5984298F-05	\$16-5A	.1240063F-02
A 0 - 0 4	• 50704475-03	316-AA	.1447098E-03	SIG-YE	.1240063F-02	ATG-DE	20564455

•6349454E+04 LATD
•
.4392894E-02 STG-GA
.2459205E-05
.1447098E-03
-4389698E-02
•6024127E+00
•1178762E+05 0 R
3353535500
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CM-PITCH .2056451 E-02

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6266972E+02	3233067E+02	9126713E+01	.4879711E+02	3231973E+02	.1122043E+00	82310.64E-03	.1193785E-02	2435166E-03	.2089727E-02	-2525657E+03	.5080481E+05	L1649504E+01	4694913E-02	-3743662E+01	.7064106E+00	
HDG A	SIGMAA	PTCH E	3	SIGMAR	CHIMO	SIG-HA	SIG-5A	SIG-PE	SIG-W	!	PSTAG	X ACCEL	CYB	1 / D	PDUT	
1496149E+02	.2423569E+03	6616993E+02	.2193838E+03	6271245E+02	.9537550E-01	.5409290E-03	.6094298E-05	11937865-02	-2499007E-02	.4791822E+05	.1181297E+05	1623697E+01	5030593E-01	.9108769E-01	.6433857E-04	
GAM A	PNUT	YAW E	>	HDG R	U-NIND	SIG-6A	516-10	SIG-YE	S16-V	PINF	۵ 0	۵	CXB	CD	CN-YAW	to describe the second
.1890117E+03 GAM A	-3501161E+02	.6761472E+01	.8374167E+02	-1495712F+02	.6735696E+U1	447476E-02	.2382545E-05	.1398085F-03	.4479569E-02	.5935424E+00	.1190621E+05	.1110116E+01	1145513E+02	.3410015E+00	.3093407E-03	.4383294E-01
VEL A	LATD	AL PHAA	IJ	GAM R	ALPHAR	SIG-VA	STG-LA	SIG-AA	ST6-U	M ACH R	V 0	0	Z ACCEL	CI	CM-PITCH	RDNT
.2185000E+04 VEL A	.6104386E+04 LATD	1834522E+00 ALPHAA	3160998E+02	.1890657E+03 GAM R	21600C3E+00 ALPHAR	0.	.1955296E+00 STG-LA	.2435166F-03 SIG-AA	.1398085E-03 SIG-U	.5933727E+00	.6609422E+00 0 A	4708553E-02 0	.1539437E+30 Z ACCE	3493542E+00 CI	.2078306F-03	.6845635E-01
TIME	ALTDE	BETA A	ROLL E	VEL R	BETA R	M-WIND	SIG-H	SIG-BA	SIG-RE	MACH A	RHO	۵	Y ACCEL	CZB	CL-ROLL	TOGO

TME	.21850G0E+04	VEL A	.1890117E+03	GA M A	1496149E+02	HDG A	6266972E+02
ALTDE	*6104386E+04	LATD	.3501161E+02	PNUT	.2423569E+03	SIGMAA	3233067E+02
BETA A	1834522E+00	AL PHAA	.6761472E+01	YAW E	6616993E+02	PTCH E	9126713E+01
	3160998E+02		.8374167E+02	>	.2193838E+03	3	4879711E+02
VEL R	.1890657E+03	GAM R	-,1495712F+02	HDG R	62712455+02	SIGMAR	3231973E+02
BETA R	21600C3E+UO	ALPHAR	.6735696E+U1	O-WIND	.9537550E-01	V-WIND	.1122043E+00
M-WIND	0	SIG-VA	.4474766E-02	SIG-6A	.5409290E-03	SIG-HA	.8231064E-03
SI6-H	.1955296E+00	STG-LA	.2382545E-05	216-10	.6094298E-05	SIG-5A	.1193785E-02
SIG-84	-2435166F-03	SIG-44	.1398085E-03	SIG-YE	,1193786E-02	SIG-PE	.2435166E-03
SIG-PE	.1398085E-03	SIG-U	.4479569E-02	SIG-V	-2499007E-02	SIG-W	.2089727E-02
MACH A	.5933727E+00	MACH R	.5935424E+00	PINF	.4791822E+05	TEMP	.2525657E+03
RHO	.6609422E+00	V 0	.1190621E+05	۵ 0	.1181297E+05	PSTAG	.5080481E+05
	4708553E-02	0	*1110116E+01	۵	1623697E+01	X ACCEL	1649504E+01
Y ACCEL	*1539437E+00	Z ACCEL	1145513E+02	CXB	5030593E-01	CYB	.4694913E-02
CZB	3493542E+00		.3410015E+00	CD	.9108769E-01	1 / D	-3743662E+01
כו – מטרו	.2078306F-03	CM-PITCH	.3093407E-03	CN-YAW	.6433857E-04	POUT	.7064106E+00
TOGE	46845635F-01	RDUT	.4383294E-01				
TWE	-2190000E+04	VEL A	*1867581E+03	GAM A	1452432E+02	HDG A	7218490E+02
AI TOF	.5865844F+04	IATO	-3501427E+02	1 ONG	-2423478E+D3	SIGMAA	3119695E+02
BETA A	16-3967949	ALPHAA	. 6899978E+01	YAW E	7584992E+02	PTCH E	8630628E+01
	3045624E+02	=	-5626733E+02	>	-2103526E+03	3	4683723E+02
VEL R	.1863257E+03	GAM R	1455877E+02	HDG R	7182007E+02	SIGMAR	3128932E+02
BETA R	.3495512E+00	ALPHAP	.7112595E+01	U-WIND	9554386E+00	V-WIND	7801048E+00
ONIM-M	0	SIG-VA	.4439252E-02	SIG-GA	.5326493E-03	SIG-HA	.7263323E-03
H-918	.1894436E+JC	SIG-1A	.2318294E-05	216-10	.6193220E-05	SIG-SA	*1138464E-02
SIG-BA	.2604667E-03	SIG-AA	,1227432E-03	SIG-YE	1138454€-02	SIG-PE	.2604667E-03
SIG-RE	.1227432E-03	0-918	.4450025E-02	216-V	.2213403E-02	SIG-W	-1988896E-02
MACH A	.5838729E+00	MACH P	.5825210E+00	PINF	.4947998E+05	TEMP	.2546680F+03
RHO	.6768499E+00	Φ 0	.1180378F+05	ď	.1174918E+05	PSTAG	.6232858E+05
	4686228E+00	o	.9137339E+00	~	1565834E+01	X ACCEL	1653450E+01
Y ACCEL	.8924593E-01	7 ACCEL	1164660E+02	CXB	5043288E-01	CYB	.2722144E-02
CZB	35524C0E+00	7	•3465083E+00	3	.9274490E-01		.3737223E+01
CL -POLL	.6758670E-04	CM-PITCH	1023224E-02	CN-YAW	*459646F-04	PDOT	.2361070E+00
TOCO	2096480F+00	TUCA	.31287315-01				

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u a	*013000C473*	VEL A	* 1044C41E+03	GA TA	1422030E+0Z	HDG A	8154555E+02
α	*563366E+04	LATD	.3501667F+02	LDNG	.2423383F+03	SIGMAA	3182981E+02
α	7078275E-01	ALPHAA	•6575824E+C1	YAW E	8499033E+02	PTCH E	8903769E+01
α 4	3113278E+02	=	.2794304E+02	>	.20636675+03	3	.4633302E+02
	•1834636E+03	GAM R	1462823E+02	HDG R	8094335E+02	SIGMAR	3198278E+02
	.3836157E+00	ALPHAR	.6950457E+01	ONIM-D	1701172E+01	ONIM-A	1266148E+01
MINI	0.	SIG-VA	.4295932E-02	SIG-6A	.51893225-03	SIG-HA	.6670303F-03
H-9IS	.1838897E+00	SIG-LA	.2269850E-05	SIG-LD	.6280106E-05	SIG-SA	.1077110E-02
SI6-8A	.2912463E-03	SIG-AA	*1096917E-03	SIG-YE	.1077110E-02	SIG-PE	.2912463E-03
SIG-RE	.1096917E-03	SI6-U	.4311189E-02	SI6-V	.2072710E-02	816-W	.1862482E-02
MACH A	•5742732E+UÜ	MACH R	.5712824E+00	PINF	.5103613E+05	TEMP	.2567145E+03
RHO	.6925716E+30	0 A	.1177795E+C5	α σ	.1165559E+05	PSTAG	.6382164E+05
م	7129094E-01	o	.7230158E+00	~	1594488E+01	X ACCEL	1693263E+01
Y ACCEL	.5480946E-01	Z ACCEL	1134858E+02	CXB	5175673E-01	СУВ	.1675321E-02
CZB	3468836E+00	ā	-3386744E+00	CD	.9114054F-01	1 / D	.3715954F+01
CL-ROLL	-4210446E-u3	CM-PIICH	1951613E-02	CN-YAW	•1617326E-03	POOT	-1416218F+01
PDUD	4201559E+00	RDUT	*1008015E+00				
TIME	.220000E+04	VEL A	.1844902E+03	GAM A	1750452F+02	HDG A	8881489F+02
AL TDE	.5384180E+04	LAID	3501740E+02	ാ	2423287F+03		2728313E+02
BETA A	3821665E+00	ALPHAA	.4234651E+01	YAW E	90461635+02	PTCH E	13559665+02
ROLL E	2685600E+02	T T	+6089738E+01	\ \ \	.2074800E+03	3	.5549118E+02
VEL R	.1828994E+03	GAM R	-,1766176E+02	HDG R	8799753E+02	SIGMAR	2752941E+02
RETA R	.2371827E+00	AL PHAR	4732886E+01	U-WIND	2450691E+01	V-WIND	1737557E+01
CNIN	0.	\$16-VA	.4095514E-02	SIG-6A	.5034000E-03	SIG-HA	4558553E-03
STG-H	*1788555E+00	S16-1A	.2238592E-05	S16-10	+6355731E-05	A2-512	1034719E-02
SIG-BA	*3041959E-03	SIG-AA	.5820410E-04	SIG-YE	10347195-02	SIG-PE	-3041959E-03
SIG-RE	*5820410E-04	S16-U	.4113178E-02	SIG-V	.2085856E-02	N-9IS	1746702E-02
MACH A	.5720400E+00	MACH R	\$671075E+00	PINF	.5274857E+05	TEMP	2589085E+03
RHO	*7097440E+00	A 0	.1207865E+05	a o	.1187125E+05	PSTAG	.6585226E+05
۵	-,4046573E-01	0	3621832E+00	~	1285330F+01	X ACCEL	2069421E+01
X ACCEL	5488402E-01	7 ACCEL	7842529E+01	CXB	6167492F-01	CYB	1635707E-02
CZB	2337307E+00	7	.2285385F+00	CD	.7876553E-01	LZB	.2901504E+01
CL-ROLL	1132551E-03	CM-PITCH	.1213865E-02	CN-YAW	.7229417E-04	POOT	3822761E+00

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### #5520108E+00 AIP44A	A A A A A A A A A A A A A A A A A A A		ALPHAA ALPHAR ALPHAR SIG-VA SIG-LA SIG-LA SIG-LA AACH R AACH R ACCEL CL CL CL CL CL CL		YAW E V HDG R U-WIND SIG-GA SIG-CA SIG-YE SIG-YE SIG-YE SIG-YE CXB CXB CN-YAW	9722627E+02 -2096004E+03 9411990E+02 3281769E+01 .6238858E-03 .6423661E-05 .1346750E-02 .2181831E-02 .2181831E-02 .2181831E-02 .2492932E+05 .1254330E+05 1613023E+01 .6203405E-01	PTCH E W SIGMAR V-WIND SIG-HA SIG-PE SIG-PE SIG-PE SIG-N TEMP PSTAG X ACCEL CYB L/D PDDT	
F2992161E+32 U	A B B CCEL		SAM R ALPHAR SIG-VA SIG-LA SIG-LA SIG-LA ACCEL CM-DITCH CDT	. 4 4 4 4 4 4 4 4 4 4 4 4 4 1 1	V HDG R U-WIND SIG-GA SIG-VE SIG-VE SIG-VE CXB CXB CXB CD	-2096004E+03 9411990E+02 3281769E+01 -6238858E-03 -6423661E-05 -1346750E-02 -2181831E-02 -5492932E+05 -1254330E+05 -1254330E+05 -129330E+01 -1291158E-01	N. SIGMAR V-WIND SIG-HA SIG-PE SIG-PE SIG-PE SIG-R SIG-R CYB L/D PD.TT	2097097E+02 2097097E+01 .1288359E-02 .1288359E-02 .1346750E-02 .2078121E-03 .1642427E-02 .2616120E+03 .6888573E+05 2139022E+01 .5633296E-02
R 1851941E+33 GAW R2135473E+02 HDG R941199DE+02 V-WIND133819696410 V-WIND132817696410 V-WIND132817696410 V-WIND132817696410 V-WIND132817696410 V-WIND132817696410 V-WIND132817696410 V-WIND13281761610 SIG-MA13281761610 SIG-MA13281761610 SIG-MA13281761610 SIG-MA13281761610 SIG-MA13281761610 SIG-MA13281761610 SIG-MA13281761610 O A -1284261610 O O A -1284261610 O O A -1284261610 O O A -1284261610	A A A B B B B B B B B B B B B B B B B B		SAM R ALPHAR SIG-VA SIG-LA SIG-LA AACH R A ACEL CM-DITCH SDOT	- 4 4 4 4 4 4 4 4 4 4 4 4 1 1	HDG R U-WIND SIG-GA SIG-V SIG-V SIG-V PINF Q R CXB CXB CD	9411990E+02 3281769E+01 .6423661E-03 .1346750E-02 .2181831E-02 .5492982E+05 .1254330E+05 1613023E+01 5995180E-01 .8203405E-01	SIGMAR V-WIND SIG-HA SIG-RE SIG-RE SIG-RE SIG-RE SIG-RE SIG-RE CYB L/D PD.DT	2093977E+02 2097097E+01 .1288359E-02 .1346750E-02 .2078121E-03 .1642427E-02 .2616120E+03 .6888573E+05 2139022E+01 .5633296E-02 .3134571E+01
A B 1336964E+00 AID-ARR .5573417E+01 U-WIND3281769E+01 V-WIND1142716E+00 SIG-VA .2223841E-05 SIG-GA .622868E=03 SIG-NA .2223841E-05 SIG-GA .622868E=03 SIG-NA .1462314E-03 SIG-NA .1462314E-03 SIG-NA .1462314E-03 SIG-NA .1642314E-03 SIG-NA .1642314E-03 SIG-NA .1642314E-03 SIG-NA .1642314E-03 SIG-NA .1642314E-03 SIG-NA .1642314E-03 SIG-NA .1642314E-03 SIG-NA .1642314E-03 SIG-NA .1642314E-03 SIG-NA .1642314E-03 SIG-NA .1642314E-03 SIG-NA .1642314E-03 SIG-NA .1642314E-03 SIG-NA .1642314E-03 SIG-NA .1642318E-03 SIG-NA .1642314E-03 SIG-NA .1643314E-03 SIG-NA .1643314E-03 SIG-NA .1643314E-03 SIG-NA .1643314E-03 SIG-NA .1643314E-03 SIG-NA .1643314E-03 SIG-NA .1643314E-03 SIG-NA .1643314E-03 SIG-NA .1643314E-03 SIG-NA .1643314E-03 SIG-NA .1643314E-03 SIG-NA .1643314E-03 SIG-NA .1643314E-03 SIG-NA .1643314E-03 SIG-NA .1643314E-03 SIG-NA .1643316E-03 SIG-NA .164316E-03 SIG-NA .16	A A A A B B B B B B B B B B B B B B B B		ALPHAR SIG-VA SIG-LA SIG-LA SIG-U MACH R D A D A CM-DITCH RDDT	44444444444	11-VIND SIG-GA SIG-LO SIG-VE SIG-VE SIG-VE SIG-VE CXB CXB CXB CD	3281769E+01 .623865E-03 .6423661E-05 .1346750E-02 .2181831E-02 .5492982E+05 .1254330E+05 1613023E+01 5995180E-01 .8203405E-01	V-WIND SIG-HA SIG-PE SIG-PE SIG-W TEMP PSTAG X ACCEL CYB L/D PDDT	2097097E+01 .1288359E-02 .1346750E-02 .2078121E-03 .1642427E-02 .2616120E+03 .6888573E+05 2139022E+01 .5633296E-02 .3134571E+01
IND 0.	TAD 0		SIG-VA SIG-LA SIG-LA SIG-U MACH R D A D A CM-DITCH SDOT	. 4 4 4 4 4 4 4 4 4 4 1 1	SIG-GA SIG-LU SIG-V SIG-V PINF Q R CXB CXB CD	.6238858E-03 .6423661E-05 .1346750E-02 .2181831E-02 .5492982E+05 .1254330E+05 1613023E+01 5995180E-01 .8203405E-01	SIG-HA SIG-SA SIG-PE SIG-W TEMP PSTAG X ACCEL CYB L/D PDDT	.1288359E-02 .1346750E-02 .2078121E-03 .1642427E-02 .2616120E+03 .6888573E+05 2139022E+01 .5633296E-02 .3134571E+01
Harring Harr	-H A A B B B B B B B B B B B B B B B B B		SIG-LA SIG-AA SIG-U MACH R D A D A C ACCEL CM-DITCH	444444444	SIG-LU SIG-YE SIG-V PINF 9 R CXB CD CN-YAW	.6423661E-05 .1346750E-02 .2181831E-02 .5492982E+05 .1254330E+05 1613023E+01 5995180E-01 .8203405E-01	SIG-SA SIG-PE SIG-W TEMP PSIAG X ACCEL CYB L/D PDOT	.1346750E-02 .2078121E-03 .1642427E-02 .2616120E+03 .6888573E+05 2139022E+01 .5633296E-02 .3134571E+01
-84 .2078121E-33 SIG-AA .1642314E-03 SIG-YF .1346750E-02 SIG-WF .32028121E-03 SIG-WF .3512872E-02 SIG-WF .25128314E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128431E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128421E-02 SIG-WF .25128121E-03 SIG-WF .25128121E-03 SIG-WF .25128121E-03 SIG-WF .2512812E-03 SIG	-BA		SIG-AA SIG-U AACH R D A D A C ACCEL CM-DITCH RDOT	4 4 4 4 4 4 4 4 1 1	SIG-YE SIG-V PINF 9 R CXB CD CN-YAW	.1346750E-02 .2181831E-02 .5492982E+05 .1254330E+05 1613023E+01 5995180E-01 .8203405E-01	SIG-PE SIG-W TEMP PSTAG X ACCEL CYB L/D PDOT	.2078121E-03 .1642427E-02 .2616120E+03 .6888573E+05 2139022E+01 .5633296E-02 .3134571E+01
He 1642314E-03 SIG-U .3919823E-02 SIG-V .2181831E-02 SIG-W H A .5739261E-00 MCH R .573426E+00 PINE .5492932E+05 TEMP A .739449E-01 O A .7638405E+00 R A .125430E+05 PSIGG A .739449E-01 O A .7638405E+00 R A A .123440E-01 CYB A .4231675E+00 Z ACCEL 9389559E+01 CXB A A .22300905E+01 CYB A .4231675E+00 A A A .2331465E-01 CYB A A .2230000E+04 VEL A A .2331465E-01 CYB A A .2230000E+04 VEL A A .2331645E-01 CYB A A .2230000E+04 VEL A A .2230000E+04 VEL A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A .2230000E+05 CYB A A A .2230000E+05 CYB A A A A A A A A A	A A A B B B B B B B B B B B B B B B B B		SIG-U MACH R D A D A C ACCEL CM-DITCH RDDT	4 4 4 4 4 4 4 1 1	SIG-V PINE 9 R CXB CD CN-YAW	.2181831E-02 .5492982E+05 .1254330E+05 1613023E+01 5995180E-01 .8203405E-01 1291158E-03	SIG-W TEMP PSTAG X ACCEL CYB L/D PDOT	.1642427E-02 .2616120E+03 .6888573E+05 2139022E+01 .5633296E-02 .3134571E+01
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2631675E+00 CL .2571415E+00 CD .4203405E-01 L/D RDLL .1628774E-03 CM-PITCH2331465E-03 CN-YAW1291158E-03 PDDT I	RDLL		SM-DITCH SDDT	4 4 4 1 1	CD CN-YAW	1291158E_03	PDOT	.3134571E+01 .5846057E+00
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F .4725766E+04 IATD .3501617E+02 INNG .2423099E+03 SIGMAA21269BIE+00 ALPHAA .4828375E+01 YAW E .1059250E+03 PICH E2934081E+02 U .2334081E+02 U .2334081E+02 U .2334081E+02 U .2334081E+03 W .2139704E+03 W .2139704E+03 W .2139704E+03 W .2139704E+03 W .2139704E+03 W .2139704E+03 W .2139704E+03 W .213926857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .2356857E+01 WIND .236698E+02 SIG-PE .236698E+02 SIG-W .236698E+02 SIG-W .236698E+02 SIG-W .236698E+02 CXB .2369826E+01 X ACCEL .23684273E+00 CL .2376709E+00 CD .17D .2376406E-02 CW-PITCH .2277709E+00 CD .1031694E+00 L/D .2376766E-02 CW-PITCH .2277709E+00 CD .1031694E+00 L/D .2376766E-02 CW-PITCH .2277709E+00 CD .2321529E-03 PDDT .2320314E-03 CN-YAW .9231529E-03 PDDT .23608B0E+03 CM-PITCH .22767709E+00 CD .23608B0E+03 PDDT .236		+04	VEL A	•1875417E+U3	1 1		HDG A	
##2126981E+00 ALPHAA .4828375E+01 YAW E1059250E+03 PTCH E2934081E+02 U3683281E+02 V .2139704E+03 W .2139704E+03 W .2139704E+03 W .2139704E+03 W .2139704E+03 W .2139704E+03 W .2139704E+03 W .2139704E+03 W .2139704E+03 W .2139704E+03 W .2139704E+03 W .2158096E+02 W .2158096E+02 W .2158096E+02 W .2158096E+02 W .2158096E+03 W	4 m a 0 4 m 4		ATD	. 3501617E+02	I DNG	.2423099E+03	SIGMAA	3014364E+02
E 2934081E+02 U 2139704E+03 W R .1858663E+03 GAM R 2255773E+02 HDG R 1023912E+03 SIGMAR R .5982618E+03 ALPHAR .560066CE+01 U-MIND 3956857E+01 V-WIND ND 0. SIG-VA .2158096E-02 SIG-GA .5901470E-03 SIG-HA ND 0. SIG-VA .2158096E-02 SIG-CA .5901470E-03 SIG-HA H .1701147E+30 SIG-LA .2223855E-05 SIG-CA .5901470E-05 SIG-NA BA .2153893E-03 SIG-LA .2223855E-05 SIG-CA .5901470E-05 SIG-SA RE .1886960E-03 SIG-NA .365290RE-02 SIG-YE .133503E-02 SIG-WA A .5762520E+00 AA .1335517E+05 AA .1306880E+05 SIG-WA A .7565969E+00 AA .1143702E+01 AA .1239826E+01 XACEL 2874619E+00 CA .2797709F+00 AA<	0 V H H H A		AL PHAA	.4828375E+01		1059250E+03	PTCH E	1800299E+02
R .1858663E+03 GAM R2255773E+02 HDG R1023912E+03 SIGMAR A R .5982618E+00 ALPHAR .560066CE+01 U-WIND3956857E+01 V-WIND IND O. SIG-VA .2158096E-02 SIG-GA .5901470E-03 SIG-HA . -H .1701147E+00 SIG-LA .2223855E-05 SIG-CA .5901470E-05 SIG-PE . -BA .2163893E-03 SIG-LA .1886960E-03 SIG-YE .1335032E-02 SIG-PE . -RE .1886960E-03 SIG-U .345290RE-02 SIG-YE .1335032E-02 SIG-PE . -RE .1886960E-03 SIG-U .345290RE-02 SIG-YE .1335032E-02 SIG-PE . -RE .1886960E-03 SIG-LA .1335517E+05 O.R .1335032E-02 SIG-PE . -1493307E+01 O.A .1335517E+05 O.R .1339826E+01 X.ACCEL . -12398274619E+00 C.L .1056698E+02 CXB1239826E+01 CYB . -2874619E+00 C.L .2797709E+00 CD .1031684E+00 1.7D . -2874619E+00 RDMT .5216915E+00 .	A R R O O O O O O O O O O O O O O O O O			3683281E+02	>	.2139704E+03	3	.7130091E+02
A R .5982618E+U0 ALPHAR .560066CE+G1 U-WIND	A R IND O IND O IND O IND O			2255773E+02		1023912E+03	SIGMAR	-,3059623E+02
IND 0. SIG-VA .2158096E-02 SIG-GA .5001470E-03 SIG-HA .1701147E+30 SIG-LA .2223855E-05 SIG-LO .6483174E-05 SIG-SA .1886960E-03 SIG-NA .1886960E-03 SIG-NA .1886960E-03 SIG-NA .1886960E-03 SIG-NA .2762520E+00 MACH R .5762520E+00 PINF .2747377E+05 IEMP .7565969E+00 O A .1335517E+05 O R .1306880E+05 PSTAG .1483307E+01 O A .1335517E+05 O R .1239826E+01 X ACCEL1084273E+00 C ACCEL10864273E+00 C ACCEL1086429E+00 C ACCEL108649E+00 C ACCEL108649E+00 C ACCEL108649E+00 C ACCEL108649E+00 C ACCEL108649E+00 C ACCEL108649E+00 C ACCEL108649E+00 C ACCEL108649E+00 C ACCEL108649E+00 C ACCEL108649E+00 C ACCEL108649E+00 ACCEL108649E+00 C ACCEL108649E+00 C ACCEL108649E+00 ACCEL108649	IND H - BA H - RE H - RE		AL PHAR	.560066CE+01	U-WIND	3956857E+01	CNIM-A	1336399E+01
-H .1701147E+30 SIG-IA .2223855E-05 SIG-IN .6483174E-05 SIG-SA .8A .2163893E-03 SIG-AA .1886960E-03 SIG-YE .1335032E-02 SIG-PE .8B .2163893E-03 SIG-W .2469124E-02 SIG-W .2469124E-02 SIG-W .8A .5762520E+30 MACH R .5703402E+00 PINF .5747377E+05 IEMP .7565969E+00 0 A .1335517E+05 0 R .1306880E+05 PSTAG .13084273E+00 Z ACCEL1084273E+00 Z ACCEL1066698E+62 CXB1239826E+01 X ACCEL2874619E+30 CL .2797709E+00 CD .1031686E+00 I./D .1292406E-02 CM-PITCH3220314E-03 CN-YAW .9231529E-03 PDDT T1086810E+30 RDDT .5216915E+00	H P P P P P P P P P P P P P P P P P P P		SIG-VA	.2158096E-02	SI G-GA	.5901470E-03	SIG-HA	.1195051E-02
-BA .2163893E-03 SIG-AA .1886960E-03 SIG-YE .1335032E-02 SIG-PE -RE .1886960E-03 SIG-U .365290RE-02 SIG-V .2409124E-02 SIG-W . 1886960E-03 SIG-U .365290RE-02 SIG-V .2409124E-02 SIG-W . 17565969E+00 MACH R .5700402E+00 PINF .574737ZE+05 IEMP . 17565969E+00 0 A .1335517E+05 0 R .1306880E+05 PSTAG . 1493307E+01 0 .1143702E+01 R1239826E+01 X ACCEL . 1084273E+00 CL . 1066698E+62 CXB1239826E+01 CYB . 1031684E+00 L/D . 10324619E+00 CL . 2797709E+00 CD . 1031684E+00 L/D . 1086810E+00 RDMT .5216915E+00	-BA -RE H A		SIG-LA	.2223855E-05	516-10	.6483174E-05	SIG-5A	.1335032E-02
-RE .1886960E-03 SIG-U .3652908E-02 SIG-V .2409124E-02 SIG-W .4 A .5762520E+00 MACH R .5700402E+00 PINE .5747377E+05 TEMP .7565969E+00 Q A .1335517E+05 Q R .1306880E+05 PSTAG .1483307E+01 Q .1148702E+01 R .1239826E+01 X ACCEL .1084273E+00 Z ACCEL .1064698E+62 CXB .1239826E+01 CYB12974619E+00 CL .2797709E+00 CD .103169E+00 L/D .1292406E-02 CM-PITCH .3220314E-03 CN-YAW .9231529E-03 PDDT T .1086910E+00 RDDT .5216915E+00	H A		SIG-AA	.1886960E-03	\$16-YE	-1335032E-02	SIG-PE	.2163893F-03
H A .5762520E+00 MACH R .5700402E+00 PINE .5747377E+05 TEMP .7565969E+00 Q A .1335517E+05 Q R .1306880E+05 PSTAG .1433307E+01 Q .1143702E+01 R1239826E+01 X ACCEL CCFL1084273E+00 Z ACCEL1056698E+62 CXB1239826E+01 CYB ENGIL1292406E-02 CM-PITCH2797709E+00 CD .1031694E+00 L/D T1086910E+00 RDMT .5216915E+00	H A		0-91S	.365290RE-02	S16-V	.2409124E-02	S I G-W	.1506723E-02
### ### ### ### ######################			MACH R	.5700402E+00	PINE	.5747377E+05	TEMP	.2646320E+03
CCEL1084273E+01 0 .1143702E+01 R1239826E+01 X ACCEL 2874619E+00 CL .1056698E+62 CXB7925358E-01 CYB .2874619E+00 CL .2797709E+00 CD .1031684E+00 L/D RULL .1292406E-02 CM-PITCH3220314E-03 CN-YAW .9231529E-03 PDDT T1086910E+00 RDDT .5216915E+00			A C	1335517E+05	0 R	.1306880E+05	PSTAG	.7197955E+05
CCEL1084273E+00 Z ACCEL1056698E+62 CXB7925358E-01 CYB 2874619E+00 CL .2797709E+00 CD .1031684E+00 L/D ROLL .1292406E-02 CM-PITCH3220314E-03 CN-YAW .9231529E-03 PDOT T1086910E+00 RDOT .5216915E+00			C	.1143702F+01	2	1239826E+01	X ACCEL	294089RE+01
2874619E+00 CL .2797709E+00 CD .1031684E+00 L/D 1292406E-02 CM-PITCH3220314E-03 CN-YAW .9231529E-03 PDDT 1086910E+00 RDDT 5216915E+00	ACCEL	00+	Z ACCEL	1056698E+C2	CXB	7925358E-01	CYB	2921981E-02
*1292406E-02 CM-PITCH -*3220314E-03 CN-YAW .9231529E-03 PDDT -*1086910E+50 RDDT *5216915E+00	-			.2797709E+00	G	.1031684E+00	170	.2711789E+01
1086810E+00 RDUT .			CM-PITCH		CN-YAW	.9231529E-03	PDDT	.4953376E+01
			RDUT	.5216915E+00				

摩摩萨摩擦摩摩洛斯摩洛摩摩斯摩摩摩斯斯克斯斯克斯克斯克斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯斯	PAGE 56 *	****************			1108140E+03	2105451E+02	1693279E+02	.6851046E+02	2159106E+02	.5212726E+00	.1097843E-02	.1334701E-02	.1486041E-03	.1385053E-02	.2676305E+03	.7465278E+05	2931057E+01	.7567478E-03	.2727836E+U1	1738187E+01	
***		*****			HDG A	SIGMAA	PTCH E	>	SIGMAR	UNIM-A	SIG-HA	SIG-SA	SIG-PE	N-9IS	TEMP	PSTAG	X ACCEL	CYB	1/0	PDOT	
***	M. DATA	*****			2171959E+02 HDG A	.2423009E+03	1124536E+03	•2203219E+03	1093776E+03	4386817E+01	€5637267E-03	•6534253E-05	1334731E-02	.2656979E-02	.6013151E+05	.1327660E+05	1078826E+01	78£3790E-01	-1038443E+00	. 8203094€-03	
**	O105 DYNA	****			GAM A	LONG	YAWE	>	HDG R	GNIM-0	SIG-6A	SIG-10	SIG-YE	SI6-V	PINF	۲ د	∞	CXB	CD	CN-YAW	
***) AMABETH, NEOLOS DYNAM. DATA	***			.1851312E+03 GAM A	.3501404E+02	.5024116E+01	5672671E+02	2183676E+02	.5613284E+01	.2439971E-02	.2236593E-05	.2039139E-03	.3370736E-62	.5617137E+00	.1341321E+05	.4861581E+00	1085668F+02	.2832702E+00	.1103475E-02	.3385715E+00
- 14	SER.10/81	-			VEL A	LATO	ALPHAA	n	GAM R	ALPHAR	SIG-VA	SIG-LA	SIG-AA	SIG-U	MACH R	O A	0	7 ACCEL	73	CM-PIICH	PNGT
******	METBETL USING LAIRS (USER, 10)	******			.2215000E+04 VEL A	•4373110E+04 LATD	2521458E+00	2052247E+02	.1841860E+03	.94782976+00	• 0	.1663519E+00 SIG-LA	.1486041E-03	.2039139E-03 SIG-U	.5645962E+00 MACH R	.7827153E+30 0 A	.6903370E+30 Q	•2820613E-01 7 ACCE	2912760E+30 CL	4799232E-03 CM-PII	.2608526E+00 PNJT
***	* MFTBET	***	1	36	TRE	AL TNE	BETA A	ROLL E	VEL R	RETA R	CNIM-M	SIG-H	SIG-BA	SIG-RE	MACH A	RHO	۵	Y ACCEL	CZB	1704-13	QD.0T

136		***	*****	****	化多元化物 化多分子 化二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	********	*************
-	AND AND AS A MANAGEMENT OF A STATE OF A STAT						
¥ F	22750665+04	VC1 A	18512125402	A MAG	- 21710505402	V ()	20730718011
AI TOF	-4373110F+04	15	. 3501404E+02	10	2423009F+02	1 3	21054516+02
BETA A	2521458E+00	ALPHAA	.5024116E+01	YAWE	1124536E+03	PTCH E	1693279F+02
ROLL E	2052247E+02	n	5672671E+02	>	.2203219E+03		.6851046E+02
VEL R	.1841860E+03	GAM R	2183676E+02	HDG R	1093775E+03	SIGMAR	2159106E+02
RETA R	.9478297E+00	ALPHAR	.5613284E+01	1	4386817E+01	CNIMIN	.5212726E+00
CNIM-3	•0	SIS-VA	.2439971E-02	SIG-6A	.5637267E-03	SIG-HA	.1097843E-02
H-918	•1663519E+UC	SIG-LA	.2236593E-05	SIG-10	.6534253E-05	SIG-SA	.1334701E-02
SIG-BA	.1486041E-03	SIG-AA	.2039139E-03	SIG-YE	1334701E-02	SIG-PE	.1486041E-03
SIG-RE	.2039139E-03	0-9IS	.3370736E-62	8 I G-V	.2656979E-02	SIG-W	-1385053E-02
MACH A	.5645962E+00	MACH R	.5617137E+00	PINF	.6013151E+05	TEMP	.2676305E+03
RHO	.78271535+30	Δ 0	.1341321E+05	α α	.1327660E+05	PSTAG	.7465278E+05
a	•6903370E+30	O	.4861581E+00	8	1078826E+01	X ACCEL	2931057E+01
Y ACCEL	.2820613E-01	7 ACCEL	1085668E+02	CXB		>	.7567478E-03
CZ B	2912760E+30	75	.2832702E+00	CD	-1038443E+00	L/D	.2727836E+U1
CL-ROLL	4799232E-03	CM-PITCH	.1103475E-02	CNIYAW	. A 203094F-03	PDOT	1738187E+01
QDOT	.2608526E+00	Phot	.3385715E+00				
	AMERICAN CONTRACTOR OF THE CON						
TXT	-22200C0E+04	VF! A	.1828047F+03	GAM A	2073613F+02	HOG A	-1159996E+03
AL TDE	.4039532E+04		.3501114F+02	(U	.2422923F+03	STGMAA	1189444F+02
RETA A	3550781E-01	ALPHAA	.4626993E+01	YAW E	1169556E+03	PTCH E	1619866E+02
ROLL E	1159281E+02	n	7017889E+02	: 1	.2263379E+03	3	.647247CE+02
VEL R	.1822658E+03	GAM R	2083028E+02	HDG R	1143230E+03	SIGMAR	1249396E+02
RETA R	•1483244E+01	ALPHAR	.5020839E+01	U-WIND	4765312E+01	ONIM-A	*1601768E+01
ONIM-M	.0	SIG-VA	.2646817E-02	SIG-6A	.5459641E-03	SIG-HA	.1018357E-02
S16-H	*1628909E+00	SIG-LA	*2259255E-05	216-10	.6579939E-05	S16-5A	1326318€-02
SIG-BA	.1228059E-03	SIG-AA	.2239779F-03	SI G-YE	•1326318F-02	SIG-PE	.1228059E-03
SIG-RE	.223A779E-03	0-91S	.3137659E-02	81G-V	,2848315F-02	SIG-W	.1294967E-02
MACH A	.5546338E+00	MAC4 R	.5529988E+00	PINE	•6272998E+05	TEMP	.2704048E+03
RHO	•8081612E+00	O A	.1350339E+05	<u>م</u>	.1342389E+05	PSTAG	.7730883E+05
٩	.2027522E+01	0	.1449770E+00	α.	4868323E+00	X ACCEL	2999U50E+01
Y ACCEL	2767757E-J1	Z ACCEL	1014734E+02	CXB	7991645E-01	CYB	7375312E-03
CZB	2703988E+00	73	.2630708E+00	CD	.1C14687E+00	1/0	.2592631E+01
CL-RULL	.2158686E-03	CM-PITCH	.2684844E-04	CN-YAW	.2660960E-03	PDOT	.8455478E+00
00 OT	1067016E-01	ROJT	.1403778E+00				

* METBET1	USING		1.AMABETH.NEO105	OLUS DYNAM.	**************************************		**************************************
*****	***	***	*****	*	***	******	. *
TIME	*2225000F+04	VEL A	.1805983F+03	SAM A	2059357F+02	HDG A	1177172E+03
AL TOE	.3719973E+04	LATO	.3500786E+02	LONG	.24228395+03	SIGMAA	-1021004F+01
BETA A	3102039E+00	ALPHAA	.4337685E+01	YAW E	1173146E+03	PTCH E	1626162E+02
ROLL E	.8819026E+30	Û	7342525E+02	۸	.2293782E+03	3	.6352303E+02
VEL R	.1805461E+03	G M P	2059979E+C2	HDG R	1157512E+03	SIGMAR	.3294648E+00
SETA R	.1530145E+U1	ALPHAR	.4322219E+01	ONIM-O	5205011E+01	OZIBI	.2559314E+01
ONIM-M	0.	SIC-VA	.2696916E-02	SI 6-6A	. 5350569E-03	SIG-HA	.97608495-03
SIG-H	.1596420E+00	SIG-LA	.2289698E-05	STG-LO	.66239655-05	SIG-SA	.1311201E-02
SIG-RA	.2124899E-J3	SIG-AA	.2489271E-03	SIG-YE	.1311201E-02	SIG-PE	.2124899F-03
SIG-RE	.2489271E-03	SI6-U	.3011197E-02	V-912	.28923235-02	M-918	.1253022E-02
MACH A	.5453357E+00	MACH R	.5451781E+00	PINF	.6529862E+05	TEMP	.2729932E+03
RHO	.8332771E+00	Α 0	.1358898E+05	ж О	.1358112E+05	PSTAG	.7993299E+05
۵	•7676682E=)2	0	.2082939E+00	a _r	4485914E-02	X ACCEL	3153154E+01
Y ACCEL	.1016464E+00	Z ACCEL	9462546E+01	CXB	8348534E-01		.2691270E-02
673	2505377E+00	7.7	*2435057E+00	CD	.1021955E+00	1.70	.2382743E+01
CL-ROLL	1054i18E-03	CM-PITCH	7281107E-04	CN-YAW	1695911E-03	PDOT	4226229E+00
annt	1820914F-01	RDUT	-,9031420E-01				
		PRAIN					
TIME	.2230000E+U4	VFL A	.1775092E+03	GAM A	2014200E+02	HDG A	1175897E+03
AL TOF	13405496E+04	LATD	.3500458E+02	LONG	.2422756E+03	SIGMAA	.2587968E+01
BETA A	2379751E+00	ALPHAA	*4709704E+01	YAW E	1171235E+03	PICH E	1544722E+02
POLL F	.2435590E+01	n	7215348E+02	٨	.2303222E+03	3	.6112491E+02
VEL R	.1793963E+03	GAM R	2003752E+02	HDG R	1155003E+03	SIGMAR	.1872529E+01
RETA R	.1718768E+01	AL DHAR	•4528952E+01	U-WIND	5029772E+01	ONIM-A	.3568480E+01
ONIZIZ	•0	SIG-VA	.2674591E-62	SIG-6A	.5264158E-03	SIG-HA	.9539359E-03
SI6-H	.1565316E+00	SIG-LA	.2326786E-05	216-10	.6669747E-05	SIG-SA	.1314327F-02
SIG-BA	.2346674E-03	SIG-44	.2525972E-03	SIG-YE	•1314327F-02	SIG-PE	.2346674E-03
SIG-RE	.2525972E-03	SIG-1)	.2943420E-02	516-V	.28653346-02	N-91S	.1233249F-02
MACH A	•5335998E+00	MACH R	.5362667E+00	PINF	•6790460E+05	TEMP	.2754624F+03
PHO	.85876455+00	ν 0	.1352961E+05	ď	.1366519E+05	PSTAG	.8242968E+05
ط	.1092904E+31	0	.6161413E+00	∞′	.2079507E+00	X ACCEL	3028871E+01
Y ACCEL	7114456E-01	Z ACCFL	-1055245E+02	CXB	8053867E-01	CYB	1891757E-02
673	2835181E+J0	70	.2759480E+00	CD	.1035456E+00	170	.2664989E+01

.5273960E-01

.2578161E-03 PDOT

CN-YAW

-.1657561E-04 .1130528E+00

CM-PITCH RDOT

.7898465E-J5 -.1001975E-D2

CL -RDLL ODOT

44444444	*** **********************	*********					
18			*****	****	***************************************	****	
8							
TIME	.2235000E+04	VEL A	.1733911E+03	GAM A	-,1978193E+02	HDG A	1164625E+03
ALTDE	.3108311E+04	LATD	.3500142E+02	LONG	.2422673E+03	SIGMAA	.3112596E+01
BETA A	.1757995E+00	ALPHAA	.4173879E+01	YAWE	-,1164092E+03	PTCH E	1560467E+02
ROLL E	.3102784E+01	n	-,6847828E+02	^	.2306906F+03	3	.5868268E+02
VEL P	.1757940E+J3	GAM R	1950050E+02	HDG R	1144086E+03	SIGMAR	.2429563E+01
BETA R	.2094361E+31	ALPHAR	.3799229E+01	ONIM-D	4227353E+01	CNIM-A	.4835280E+01
GNIM-M	0	SIG-VA	.2612097E-02	SIG-GA	.5183631E-03	SIG-HA	.9395185E-03
H-913	.1535361E+00	SIG-14	.2369774E-05	216-10	.6717757E-05	SIG-5A	.1317976E-02
S16-84	.2475762E-03	SIG-AA	.2612350F-03	SIG-YE	1317976F-02	SIG-PE	.2475762F-03
SIG-RE	.2612350F-J3	SIG-U	.2897778E-02	S16-V	-2798403E-02	STG-W	.1224158E-02
MACH A	.5191032E+00	MACH P	.5252971E+00	PINF	.7044080E+05	TEMP	.2777144E+03
PHJ	.8836151E+00	A 0	.1328271E+05	α Ο	.1365341F+05	PSTAG	.8464728E+05
۵	417C791E+00	0	2037108F+00	α	.2198846F+00	X ACCEL	3192274E+01
Y ACC FL	.2095512E-01	7 ACCEL	8944658E+01	CXB	8645344E-01	CYB	.5675086E-03
CZB	2422400E+00	7	.2353052F+00	g	.1038552F+00	1 / D	.2265704E+01
CL-ROLL	.1410126E-03	CM-PITCH	,1769024E-02	CN-YAW	1351134F-03	PDUT	.5162187E+00
ODUT	.4309420E+00	RONT	5176884E-01				
TIME	.2240000E+04	VE! A	-1712419F+03	GAM A	2107268E+02	HDG A	1160453E+03
AL TDE	.2809558E+04	LATD	3499840E+02	LONG	2422591E+03	SIGMAA	- 1009492E+01
BETA A	.5017654E-01	A1 P4AA	.4031203E+01	YAW E	1161718E+03	PICH E	1704294E+02
ROLL E	9663742E+00		6655444E+02	>	.2324762E+03	7	.6157034E+02
VEL R	.1745112E+03	GAM R	2065965E+02	HDG R	1140534E+03	SIGMAR	1712709E+01
BETA R	.1920732E+01	ALPHAR	.3662514E+01	U-WIND	3606390F+01	V-WIND	.5546845E+01
CNIM-M	• 0	SIG-VA	.2576263E-02	S16-6A	.5098981E-03	SIG-HA	.9170655E-03
SIG-H	.1506593E+00	SIG-1A	*2417946E-05	216-10	.6768114E-05	SIG-SA	.1326372E-02
SIG-8A	.2075724E-03	S15-AA	.2767158E-03	SIG-YE	.1326372E-02	SIG-PE	.2075724E-03
SIG-RE	.2767158E-03	S16-U	. 2828471E-02	SIG-V	.2758104E-02	SIG-W	.1208188E-02
MACH A	.5106738E+00	MACH R	.5204234E+00	PINE	.7306473E+05	TEMP	.2798886E+03
RHD	.9094102F+00	V 0	•1333367E+05	ď	.1384765E+05	PSTAG	.8729522E+05
۵	.1228174E+00	o	.1515574E+00	α	•68100675-01	X ACCEL	2820449E+01
Y ACCEL	.3747795E-J1	Z ACCEL	8990469E+01	CXB	7608457F-01	CYB	.1011007E-02
CZB	2425273E+JO	75	.2365786E+00	00	.9294593E-01	170	.2545336E+01
CL-ROLL	9762211E-04	CM-PITCH	2581197E-03	CN-YAW	3576953E-03	PDQT	3982285E+00
onnt	6321319E-01	RDOT	1759959E+00				

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TYME	22450005404	V - 3/	170010010071	4 447	2011100000	- 1	
AI THE	24908045	ATO	2400528402	A JANO	204224044	A SOLU	50.1000011.
0 0 1 4 4	16346047.00		201700011	וכ	C 7 2 7 7 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		- 3544/0/E+00
25 H B	122020E+00	ALMAA	**************************************	YAW E	11624645+03	PICH E	1647179E+02
_	2688936E+00		6714309E+02	X	.2323017E+03	>	.6106825E+02
VEL P	.1747054E+03	GAM D	2045978E+02	HDG R	1142173E+03	SIGMAR	-,9779150E+00
BETA P	.1882273E+01	ALPHAR	.4008625E+01	U-WIND	2989129E+01	ONIMO	•5872138E+01
ONIMO	0.	SIG-VA	.2583536E-02	SIG-GA	.5033954E-03	SIG-HA	.9051381E-03
SI 6-H	.1479122E+00	SIG-LA	.2470571E-05	SIG-LO	.6819804E-05	SI6-5A	-1330238F-02
SIG-8A	.2192521E-03	SIG-AA	.2820556E-03	SIG-YE	.1330238E-02	SIG-PE	-2192521E-03
CIG-RE	.2820556E-03	0-9IS	.2793285E-02	V-9 I S	.2759471F-02	N-918	-1191684F-02
MACH A	.5077681E+30	MACH R	.51901416+00	TALO	.7586665E+05	TEMP	.2820375#+03
RHO	.9370902E+00	A Q	.1368789E+05	α σ	.1430092E+05	PSTAG	.9046453F+05
a	2312704E+00	0	1973215E-01		2974C89E-02	X ACCEL	2798308F+01
Y ACCEL	7712592E-01	Z ACCEL	9595518E+01	CXB	7352669E-01	-	2026515F-02
CZR	-*2521262E+00	CL	.2456401E+00	00	.9292316E-01	6/1	.2643476F+01
CL-ROLL	.1188939E-03	CM-PITCH	.8183549E-04	CN-YAW	.1205031F-03	PDOT	4694097F+00
QDOT	.2050390E-01	RDOT	•68459645-01				
TIME	•2250000E+04	VEL A	•1698828E+03	GAM A	19678725+02	HDG A	1161448F+03
AL TDE	.2199954E+04	LATD	.3499233E+02	O	.2422427F+03	5	6615558F+00
BETA A	.6792358E-01	ALPHAA	.4945993E+01	YAW E	1162738E+03	PTCH F	1473379F+02
ROLL E	6204440E+00	1)	6807902E+02	>	.2322114E+03	3	
VEL R	.1738324E+03	GAM R	1921382E+02	HDG P	1145028E+03	SIGMAR	1201768E+01
BETA R	*1623631E+01	ALPHAR	.4506327E+01	O-WIND	2406434E+01	ONIM-V	.5772111E+01
M-WIND	•0	SIG-VA	.2596147E-02	SIG-6A	. 4968244E-03	SIG-HA	•9929412E-03
SI G-H	*1452850E+00	SIG-LA	.2527184E-05	216-10	.6872359E-05	SIG-5A	.1340297E-02
SIG-84	.2234419E-03	SIC-AA	.2759892E-03	SIG-YE	-1340297E-02	SIG-PE	*2234419E-03
SIG-RE	.2759892E-03	SIG-U	.2757576E-02	V-918	2755741E-02	S16-W	.1174777E-02
MACH A	.5029355E+00	MACH R	.5146284E+00	PINF	.7866073E+05	TEMP	.2840052E+03
RHU	*9648701E+00	Φ 0	.1392315E+G5	а С	.1457808E+05	PSTAG	.9349162E+05
Ь	3376337E-01	C	.7325963E+00	∞	2012753E-01	X ACCEL	3034006E+01
Y ACCEL	3793185E-01	Z ACCEL	1074376F+02	CXB	7836540F-01	CYB	9797425E-03
CZB	2775008E+00	7	.2697111E+00	g	.1019988E+00	1/0	.2644257E+01
21-8011	3636909E-05	CM-PITC4	.4803026E-03	CN-YAW	3523306E-04	PDOT	1743071E-01
T 0 0 0	12208605400	1000	171543451				

140						
1 M L	.2255000E+04	VEL A	.1656576E+03	GAM A	1833784E+02 HDG A	
AITDE	.1928265E+04	LATO	3498927E+02	DNU	.2422346E+03 SIGMAA	
RETA A	-1043066E+00	AI PHAA	.4233253E+01	YAW E	-1167513E+03 PTCH	F1410650E+02
ROLL E	2324477E+01	n	6812185E+02	>	.2354027E+03 W	.5211910E+02
Jα	*1694802E+U3	GAM R	1791003E+02	HDG R	1149872E+03 SIGMAR	R2862821E+01
.⊲	.1522774E+01	ALPHAR	.3876302E+01	U-WIND	1943743E+01 V-WIND	D .5400648E+01
	•0	SIG-VA	,2028411E-02	SIG-6A	.5021832E-03 SIG-HA	A .1079226E-02
N-918	.1427689E+00	STG-LA	.2585781E-05	SI 6-L D	į	
SIG-8A	.1110380E-13	SIG-AA	.2631600E-03	SI G-YE	.1402864E-02 SIG-PE	F .1110380F-03
SIG-RE	.2631600E-03	0-51S	-2663994E-02	516-V	.2752025E-02 SIG-W	,1152198F-02
MACHA	.4889836E+00	MACH R	.5002669E+00	PINE		
1	.9909478E+30	0 A	1359701F+05	9 B	.1423176E+05 PSTAG	.9569844E+05
۵	3981102E+30	G	1708952E+00	~	1441398E+00 X ACCE	
Y ACCEL	1940543E-01	Z ACCEL	9418791E+01	CXB	8536359E-01 CYB	5132019E-03
C.7.B	2490923E+00		.2421006E+60	an	.1035433E+00 L/D	-2338158E+01
CL -ROLL	5467798E-03	CM-PITC4	.1457112E-02	CN-YAW	9643685E-04 PDDT	2103515E+01
TUUO	.3654868E+30	RDAT	9594103E-01			And Andrew Committee of the Andrew Committee of the Commi
TIME	.2250000E+04	VFL A	.1625213E+03	GAM A	1874386E+02 HDG A	1177808E+03
AITOF	16676545+04	IATD	.3498616E+02	LONG	2422267E+03 SIGMAA	A == 5955843E+01
BFTA A	3082422E+30	AL PHAA	.3829281E+01	YAW E	1178751F+03 PTCH	E1490328E+02
ROLL	593R834E+01	n	70C8287E+02	\	.2405538E+03 W	.5225642E+02
VEL	.16591925+03	GAM R	-,1835785E+02	HDG R	1164259E+03 SIGMAR	R6385393E+01
BETA R	.1010242E+31	AL PHAP	.3583590E+01	U-WIND	1693353E+01 V-WIND	
UNIM-M	0	516-VA	.2050392F-02	S16-6A	.4889830E-03 SIG-HA	
STG-H	.1403659E+00	STG-1 A	.2647864E-05	516-10	.6979534E-05 SIG-SA	A .1401985E-02
SIG-8A	-1385890E-03	SIG-AA	.2762397E-03	SIG-YE	.1401985E-02 SIG-PE	•
STG-RE	2762397E-U3	ST6-U	.2537453E-02	X-918	.2769314E-02 SIG-W	
MACH A	-4787568E+00	MACH R	.4884658E+00	PINF	.8382837E+05 TEMP	.2871953E+03
	.1016836E+01	A 0	.1344546E+05	0 R	.1399633E+05 PSTAG	. 9806674E+05
d	2976793E-01	a	2935781E+00	α'	4173487E+00 X ACCEL	EL 3163883E+01
Y ACCEL	8759394E-U1	Z ACCEL	-,9141695E+01	CXB	4	-2342456E-02
CZB	2444692E+00	73	.2382729E+00	93	.1007469E+00 L/D	*2365063E+01
CL-ROLL	9250214E-04	CM-PITC4	2925806E-02	CN-YAW	1323683E-03 PDOT	3628407E+00
1000	7237322E+00	RDJT	7075889E-01	Administration De Mar C & Assessment Company of the Company of t		

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. H	2265000E+04	VE! A	-1620140E+03	A M A G	2040340F+02	HDG A	1189682E+03
AI TOF	!	LATO	3498795E+02	U	-2422192E+03		4526974F+01
RETA A	2479007F+00	A1 PHAA	. 3927274F+01	YAW F	11954845+03	PTCH F	1650698E+02
ROLL E	4334697E+01	n	7244183E+02		-2448955E+03	A	.5648258E+02
∝	.1646781E+03	GAM R	2005901E+02	HDG R	1179245E+03	SIGMAR	4884470E+01
BETA R	.1252179E+01	ALPHAR	.3664381E+01	ONIW-D	1102511E+01	ONIM-A	.3826207E+01
CNIM-M	0.	SIG-VA	.2078024E-02	SIG-6A	44788032E-03	SIG-HA	.1018754E-02
H-91S	.1380756E+00	SIG-LA	2709485E-05	SIG-10	.7033935E-05	SIG-SA	1400181E-02
SIG-8A	.1228764E-03	SIG-AA	.2961317E-03	SIG-YE	.1400181F-02	STG-PF	.1228764E-03
SIG-RE	.2961317E-03	11-518	.2435000F-02	SI 6-V	.2795473E-02	M-918	.1099089F-02
MACH A	.4757557E+00	MACH R	4835787E+00	PINE	-8657845E+05	TEMP	.28R6619E+03
	.1044859E+01		.1371301E+05	a. O	.1416769E+05	PSTAG	-1010899E+06
d	.7758282E+00		.3327501E-01	~	2048125E+00	X ACCEL	-, 2543903E+01
Y ACCEL	.2114643E-01	7 ACCF1	8250153E+61	CXB	6669654E-01	CYB	.5544219E-03
CZ B	2163044F+00	Cl	.2112284F+00	CD	8135476F-01	1 70	.2596387E+01
CL-ROLL	.1387222E-03	CM-PITCH	.4309924E-02	CN-YAW	.2049179E-04	PDUT	-5378974E+00
apar	*1084967E+01	PDOT	.2200807E-01				
TIME	-2270000E+04	VEL A	*1657127E+03	GAM A	2031917E+02	HDG A	1194458E+03
AI TOF	-1107869E+04	LATD	.3497961E+02	(7	.2422117E+03	SIGMAA	1947060F+01
BETA A	.5151470E+00	ALPHAA	.5054342F+01	YAN E	1201552E+03	P TCH F	1528378E+02
1	1707217E+01	n	7613575E+02	>	.2437432E+03	3	.5754364E+02
04	.1676441E+03	GAM R	2007494E+02	HDG R	1189161E+03	SIGMAR	2126908E+01
BETA R	.1020649E+01	ALPHAR	.4827919E+01	U-WIND	2593028E+00	V-WIND	.2501815E+01
ONIN-N	0.	SIG-VA	.2101642E-02	SIG-GA	.4742107E-03	SIG-HA	.1032331E-02
SI 6-H	.1358923E+00	SIG-LA	.2772308E-05	SIG-LO	.7088826E-05	SIG-5A	1411585E-02
SIG-8A	.1032571E-03	SIG-AA	.2949131E-03	SIG-YE	.1411595E-02	SIG-PE	.1032571E-03
SIG-RE	.2949131E-03	SIS-U	.2432877E-02	5 I G-V	.2852183E-02	S16-W	.1089388E-02
MACH A	.4854263E+JO	MACH R	.4910839E+00	PINE	.8956724E+05	TEMP	.2900796E+03
RHO	.1075646E+01	Φ 0	.1476899E+05	α σ	.1511526E+05	PSTAG	.1052321E+06
۵	.5036990E-01	0	.1175215E+01	∞	1322911E-01	X ACCEL	1797246E+01
Y ACCEL	8469154E-01	Z ACCEL	1040240E+02	CXB	4374758F-01	CYB	-,2061515E-02
6 Z B	2532096E+00	73	.2483708E+00	CD	.6588537E-01	1.70	.3769741E+01
CL -R011	•1643853E-03	CM-PITCH	.3549358F-02	CN-YAW	.2768877E-03	PDDT	*7111225E+00
+000	0047007470	F 0 0	1 0 0 4 0 0 0 0 1 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 0 1 0				

* METBE	* METBET1 USING LAIRS (USER, 10/81) . AMABETH . NEO105	ED105 DYNAM.	M. DATA		1. AMABETH. NEO105 DYNAM. DATA #
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142				And the second s			
1 1	.2275000E+04	VEL A	.1661263E+03	GAM A	1402510E+02	HDG A	11 RO6 36F+03
ALTDE	.8538238E+03	LATO	.3497609E+02	LONG	9	1 2	-5447554F+01
	.2550756E+30	ALPHAA	.6901588E+01	YAW E	1185390E+03	PTCH E	7130275F+01
ROLL F	.5388516E+Ul	n	7867268E+02	^	.2394737E+03	3	-4026021E+02
VFL R	.1673390F+03	GAM R	-,1392141E+02	HDG R	1189710E+63	SIGMAR	-54545A1E+01
RETA R	.2187812E+00	ALPHAR	.6800886E+01	ONIM-O	•6726689E+00	ONIM-A	.1055990F+01
ONIM-M	•0	SIG-VA	.2094517E-62	SIG-6A	-470A635F-03	STG-HA	1045850E-02
S16-H	.1337976E+00	SIG-LA	.2837719E-05	SIG-LO	.7143919E-05	S 16-5 A	-1450840F-02
SIG-8A	.1169831E-03	SIG-AA	.2528743E-03	SIG-YE	•1450840F-02	SIG-PE	-1168831F-03
SIG-RE	.2528743E-03	SIG-0	*2494122E-02	816-V	.2889265E-02	SIG-W	-1091886E-02
MACH A	.4856905E+00	MACH R	.4892359E+00	HNIa	.9228122E+05	TEMP	.2912125E+03
RHO	.1103928E+01	Q A	.1523307E+05	a O	15456275+05	PSTAG	10863936+06
a	.1948712E+01	o	.2190108E+01	!	.7132035F+00	Y ACCE.	-1476466401
Y ACCEL	2163014E+30	ZACCEL	1462906E+02	CXB	3484614E-01		5164281E-02
CZB	3452167E+00	ij	*3385280E+00	00	.7607638F-01	971	-4449844E+01
CL -ROLL	2599624E-03	CM-PITCH	.6436502E-03	CN-YAW	.20143456-03	POUT	11019795+01
9D.07	.2011558E+30	ROOT	•1833864E-01				
	. 2280000E+04	VE! A	15070845403	A MAS	E CONTRACTOR		
AI TOF	-7142656F+03	1 110	3407070	10	24210425401	A SUL	1102340E+03
BETA A	6526658F-ul	AI PHAA	- 7035864F+01	u	- 11562015±03	DICHAR	10630666
ROLL E	*4344346E+01	Ŋ	7027169F+02	1	23901375+03		16502765+01
VEL R	.1597984E+03	GAM R	5927635E+01	HDG R	1162390F+03	ATCMAD	42727675
BETA R	6526515E-01	ALPHAP	.7035864E+01	-	0	CNININ	0.
ONIM-A	0.	SIG-VA	.19771015-02	SIG-6A	.4643639E-0	SIG-HA	-1050966F-02
SI 6-H	.1317663E+00	SIG-LA	.2906024E-05	SI6-L0	.7199508E-05	SIG-SA	1486171F-02
SIG-BA	.1184789E-03	SIG-AA	.2457638E-03	SIG-YE	.1486171E-02	SIG-PE	.1184789F-03
SIG-RE	.2457638E-03	SIG-U	.2515918E-02	SIG-V	.2720660E-02	SIG-W	-1111848F-02
MACH A	.4667315E+00	MACH R	.4667315F+C0	PINE	.9380259E+05	TEMP	.2917848E+03
OHa	.1119926E+01	Φ 0	.14298945+05	a O	.1429894E+05	PSTAG	.1089023E+06
i	1786733E+01	O	.1873966E+01	œ	•7766802E-01	X ACCEL	1315632F+01
Y ACCEL	9240285E-01	Z ACCEL	1419560E+02	СХВ	-, 3307307E-01		2322872E-02
CZB	3566053E+00	כר	.349868E+00	ດວ	.76504825-01	1/0	•
CL-ROLL	.1195613E-03	CM-PITCH	1161133E-02	CNITAN	2136459E-03	PDUT	4590267E+00
00 OT	3091262E+00	ROOT	4832732F-01				^^

-.1161133E-02 --4832732E-01

-.3566053E+00 -1195613E-03 -.3091262E+00

CZB CL-RDLL QDOT

ROOT

127 128 12

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TIME	.2285000E+04	VFL A	.1488873E+03	GAM A	1460076E+01	HDG A	1152869E+03
ALTDE	.6705089E+03	LATO	.3496972E+02		.2421886E+03	SIGMAA	1514141E+00
BETA A	1088276E+30	ALPHAA	.6168919E+01	YAW E	1151947E+03	PTCH E	•4709111E+01
	1546597E+00	n	6357679E+02	>	.2470138E+03	3	.3793703E+01
VEL R	.1488873E+03	GAM R	1460076E+01	HDG R	1152869E+03	SIGMAR	-,1514141E+00
BETA R	1088262E+30	ALPYAR	.6168919E+01	U-VIND	•0	ONINO	•0
ONIM-M	• 0	STG-VA	.1914588E-02	SIG-6A	.45361835-03	SIG-HA	•9838377E-03
SIG-H	.1298087E+00	SIG-LA	.2974385E-05	SIG-10	.7255728E-05	\$16-SA	.15037986-02
SIG-RA	.1074646E-U3	SIG-AA	.2574182E-03	SIG-YE	1503798E-02	SIG-PE	.1074646E-03
SIG-RE	.2574182E-03	SI6-U	.2373160E-02	SIG-V	.2577396F-02	N-918	.1112643E-02
MACH A	.4347348E+00	MACH R	.4347348E+00	PINF	.9428414E+05	TEMP	.2919567E+03
RHO	.1125013E+01	Q A	.1246931E+05	æ	.1246931E+05	PSTAG	.1073581E+06
d	9033916E+U0	0	.3408073E+00	a	.8377298E-02	X ACCEL	1249472E+01
Y ACCEL	1323590E+JQ	Z ACCEL	1092514E+02	CXB	3601821F-01	CYB	3815481E-02
CZB	3149362F+00	13	.3092420E+00	១	*6965270E-01	Q7 T	.4439771E+01
CL-ROLL	.2230652E-03	CM-PITCH	.2123155E-04	CN-YAW	.2898156F-04	PDOT	-7859095E+00
1000	.4405495E-02	ROUT	.3548022F-01				
TIME	*2290000E+04	VFI A	.1359424E+03	GAM A	6135922E+00	HDG A	1158609E+03
AL TDE	.6592914E+13	LATD	3496695E+02	LONG	.2421815E+03	SIGHAA	-,1588961E+01
BETA A	2451071E+00	AL PHAA	.6711239E+01	YAW E	1158029F+03	PTCH E	.6101851E+01
ROLL E	1600551E+01		5929306E+02		.2592817E+03	3	.1455807E+01
VEL R	-1359424E+03	GAM R	6135922E+00	HDG R	1158609E+03	SIGMAR	1588961E+01
BETA R	2451057E+00	ALPHAP	.6711239E+01	U-WIND	•0	V-WIND	0.
M-WIND	•0	S16-VA	.1894768E-02	SIG-GA	.4414999E-03	SIG-HA	.8963239E-03
S16-H	.1279408E+00	SIG-1 A	3039644E-05	516-10	.7312131E-05	SIG-SA	.1513906E-02
SIG-8A	.1093267E-03	SIG-AA	.2645394E-03	SIG-YE	.15139065-02	SIG-PE	.1093267E-03
SIG-RE	.2645394E-03	SIG-U	.2154428E-02	SIG-V	.2475671E-02	N-918	.1103008E-02
MACH A	.3969076E+00	MACH R	.3969076E+00	PINF	9440795E+05	TEMP	.2920002E+03
RHO	.1126322E+01	0 A	*1040740E+05	ه م	.1040740E+05	PSTAG	.1052353E+06
Ь	.7579330E+30	0	.2151283E+00	8	4311995E-01	X ACCEL	1588033E+01
Y ACCEL	7152283E-01	7 ACCEL	9433878E+01	CXB	5484713E-01	CYB	2470239E-02
673	3258251E+00	נד	.3171927E+00	ဌ	.9254903E-01		.3427186E+01
CL-ROLL	.4092009E-03	CM-PIICH	.3781224E-02	CN-YAW	.1866923E-03	PDOT	.1212884E+01

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ALTME	*****	***	***	******	****	安安布 化二甲基 化二甲基 化二甲基 化二甲基 化二甲基 化二甲基 化二甲基 化二甲基	****	***
E .6517862E+03 LATD A4932912E+00 ALPHAA E .1143225E+01 U R .12367G7E+J3 GAM R -1932899E+0C ALPHAR ND O. SIG-VA H .1261685E+DO SIG-LA SA .1127680E-03 SIG-LA A .1127260E+01 O A A .1127260E+01 O A A .1127260E+01 O A A .1127260E+01 O A A .1127260E+01 O A A .1127260E+01 O A A .1127260E+01 O A A .1127260E+01 O A A .1127260E+01 O A A .1127260E+01 O A A .1127260E+01 O A A .1127260E+01 O A A .1127260E+01 O A A .1127261E+00 RDIT A .1127261E+00 SIG-LA B .1126766E-03 SIG-AA A .12789203E-03 SIG-AA A .12789203E-03 SIG-AA A .12789203E-03 SIG-AA A .12789203E-03 SIG-AA A .12789203E-03 SIG-AA A .1127911E+01 O A -110170E-03 CM-PITCH -2766572E-11 Z ACCEI -2766572E-11 Z ACCEI -2766572E-11 Z ACCEI -2766572E-11 Z ACCEI -2766572E-10 O CL	44							
E	TIME		EL A	.1236707E+03	GAM A	8282154E+00	HDG A	1161211F+03
R	ALIDE	٦	ATO	.3496439E+02	LONG	.2421751E+03	3	-1141688F+01
R	- 1		LPHAA	.7964804F+01	YAWF	1154694F+03	PTCH F	.7125223E+01
R	4			5444278E+02	^	*2705865E+03		.1787609E+01
ND 0. SIG-VA H .1261685E+30 SIG-AA BA .1127480E-03 SIG-AA RE .2698982E-33 SIG-AA A .3610665E+00 MACH R A .362370E+30 O CEL .1923669E-01 Z ACCEL4027911E+30 CL A .4027911E+30 CL A .4027911E+30 CL A .4027911E+30 CL A .4027911E+30 CL B .457046E+33 LATD CEL .4657046E+33 LATD R .457046E+33 LATD R .43282074E+03 SIG-VA H .1245045E+00 SIG-LA BA .1126760E-03 SIG-AA A .3282074E+00 MACH R A .3282074E+00 O CEL .7756572E-31 Z ACCEL CEL .7756572E-31 Z ACCEL CEL .7756572E-31 Z ACCEL A .3284837E+00 CL CEL .7756572E-31 Z ACCEL CEL .7756577E-41 Z ACCEL CEL .7756577E-41 Z ACCEL CEL .7756577E-41 Z ACCEL CEL .7756577E-41 Z ACC	**		- 1	8282154E+00	HDG R	1161211E+03	SIGMAR	-1141688E+01
H .1261685E+30 SIG-VA BA .1127480E-03 SIG-AA RE .2698982E-33 SIG-U A .3610665E+00 MACH R . 1127260E+01 Q A . 2802370E+00 Q CH-PITC4 . GEI .1923669E-01 Z ACCEI -4027911E+00 CI . GLI8837515E-04 CM-PITC4 . A .6306199E-01 ALPHAR . R .6457046E+03 ALPHAR . R .6457046E+03 SIG-VA . R .1124224E+03 GAM R . R .1245045E+00 SIG-LA . BA .1126760E-03 SIG-LA . A .3282074E+00 MACH R . A .3282074E+00 Q . CEI .7756572E-01 Z ACCEI 9191356E+00 Q . CEI .7756572E-01 Z ACCEI 5294837E+00 CI .		*4932899E+0C	LPHAR	.7964804E+01	U-KIND	Ġ	ONIM-V	0.
## 1261685E+30 SIG-1A ## 1127480E-03 SIG-AA ## 2699982E-33 SIG-U ## 3610665E+00 MACH R ## 137260E+01 0 A ## 3802370E+00 0 ## 23306000E+04 VEL A ## 24923669E-01 Z ACCEL ## 24027911E+00 CL ## 24027911E+00 CL ## 24027911E+00 RDDT ## 24027911E+00 RDDT ## 24027911E+00 RDDT ## 24027911E+00 SIG-VA ## 3282074E+00 MACH R ## 3282074E+00 MACH R ## 3282074E+00 MACH R ## 3282074E+00 Q ## 3282074E+00 CL ## 3269203E-03 SIG-U ## 3282074E+00 CL ## 3269203E-03 SIG-U ## 3282074E+00 CL ## 3269203E-03 SIG-U ## 3269203E-03 SIG-U ## 3269203E-03 SIG-U ## 3269203E-03 SIG-U ## 32692074E+00 MACH R ## 32692074E+00 CL ## 32692074E+00 CL ## 32692074E-00 CL ## 32692074E-00 CL ## 32692074E-00 CL ## 32692074E-00 CL ## 32692074E-00 CL ## 32692074E-00 CL ## 32692074E-00 CL ## 32692074E-00 CL ## 32692074E-00 CL ## 32692074E-00 CL ## 32692074E-00 CL ## 32692074E-00 CL ## 3269746E-00 CL ## 32692074E-00 CL #	M-WIND		IG-VA	-1867157E-02	SIG-6A	.4322462E-03	SIG-HA	.8192445E-03
RE .2698982E-J3 SIG-AA .3610665E+00 MACH R .3127260E+01 Q A .3127260E+01 Q A .3802370E+00 Q C4027911E+00 C4027911E+00 C4027911E+00 C4027911E+00 C4027911E+00 C4027911E+00 C4027911E+00 C4027911E+00 C4027911E+00 C4027911E+00 C4027911E+00 C4027911E+00 G4027911E+00 G40279135E-04 C40279135E+00 G40279135E+00 G40279135E+00 G40279135E+00 G4027572E-01 Z ACCE! -27294837E+00 C40276E+00 G4027256E+00 G40272E-01 Z ACCE! -27264837E+00 C40272	8 I G-H		IG-1 A	.3100283E-05	STG-LD	*7358447E-05	SIG-5A	1522947F-02
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A .3610665E+00 MACH R .1127260E+01 Q A .3802370E+01 Q A .3802370E+00 Q CEL .1923669E-01 Z ACCEL4027911E+00 CL .3417006E+00 RDNT .3417006E+00 RDNT .2300000E+04 VEL A .6457046E+00 RDNT .46457046E+00 RDNT .46457046E+00 RDNT .46457046E+00 RDHAR .46457046E+00 Q A .3282074E+00 MACH R .1127911E+01 Q A .465272E-01 Z ACCEL5294837E+00 CL .467626E+00 BDNT .46626E+00 GL .46626E+00 BDNT	SIG-RE		IG-U	.1976363E-02	SI 6-V	-2367300F-02	M-915	-1101425F-02
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H .1245045E+00 SIG-LA	CNIN-X	THE RESERVE THE PROPERTY OF TH	IG-VA	.1818814E-02	SIG-6A	.4254907E-03	SIG-HA	.7555124E-03
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A .3282074E+00 MACH R .1127911E+01 Q A	SIG-RE		IG-U	.1848403E-02	516-V	.2240497E-02	SIG-W	.1109409E-02
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0LL .1101700E-03 CM-PITCH			- 1	1049949E+02	CXB	2987398E-01	CYB	-3911600F-02
011 -1101700E-03 CM-PITCH	628	.5294837E+00		.5179835E+00	dp	.1137476E+00	1.70	4553799F+01
- 27646245410 DONT	CL-ROLL		M-PITCH	2888404E-02	CN-YAW	3023957E-03	PDOT	*2071835E+00
I CON ANTACE OF STREET	QDOT	3764624E+30 PC	DUT	6730616F-01				

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TIME	-2305000E+04	VEL A	.1021185E+03	GA * A	1929900E+00	HDG A	1156743E+03
ALTOR	. 6425871E+03	IATD	.349599E+02	LONG	.2421640E+03	SIGMAA	.2362834E+00
DETAA	- 25563416+30	AAHGIA	.9717125F+01	YAW F	-,1153783E+03	PTCH E	.9523000E+01
1	7		4474300F+02		. 2895985E+03	3	.3439662E+00
۵	10211855403	Q MAG	1929901F+0C	HDG R	1156743E+03	SIGMAR	.2362834E+00
<	255K328F+10	-	.9717125E+01		0.	ONIM-A	• 0
12	0	0.T.C.= VA	1886135F-02	STG-6A	. 5701507E-03	SIG-HA	1029845F-02
ST G-H	12205725+00	71G-1 A	.3209736E-05	216-10	.7479897E-05	SIG-SA	1535854E-02
01010	11005715-03	0 T G T A	- 3289745F-03	SIG-YE	.1535854F-02	\$16-PE	.1109571F-03
CTCLOE	22807655-03	CTG-11	1735340F-02	816-V	.2153769E-02	SIG-W	.1117701E-02
4 10 14	20811005	MACH D	-2981199E+00	TNT	9459258E+05	TEMP	.2920646E+03
DATE A	11282765401	1	- 5887033E+04	a 0	5882933E+04	PSTAG	*1006094E+06
Kall	- 1610383E+00		.6453195F-01	α.	2436554E-01	X ACCEL	3076890E+00
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AL TOE	.6414278E+03	LATD	.3495808F+02	נים	.2421592E+03	SIGMAA	- 453/832E+UU
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1	4579521E+00	=	4051805E+02	>	.2978686E+03	A	.7272983E-01
0	93058635+02	GAM R	4477943E-01	HDG R	1158110E+03	SIGMAR	- 4532835E+00
. <	- 2238370E+00	1 7	-8058649E+01	QNIM-D	0	V-WIND	0,
17	0	016-VA	.184958E-02	SIG-GA		SIG-HA	.9686296E-03
	12153705+00	A 1-517	3258726F-05	SIG-LO	.7534343E-05	SIG-SA	•1544121E-02
010	11185425-02	0 T G - A A	- 3494703F-03	SIG-YE	.1544121E-02	SIG-PE	.1118562F-03
O TO TO	200707070	0.16-11	1454324F-02	∨16-V	-2074907E-02	SIG-W	.1130951E-02
2	27144805400	O TUVE	-2716689F+00	UN LO	-9460575E+05	TEMP	.2920691F+03
A LONG	113001611	1	4885087F+04	8 0	4885987E+04	PSTAG	.9958420E+05
, L	23054285-01		7160157F-01	i .	8014574E-01	X ACCEL	-,2530972E+00
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ITHE	.2315000E+04	VEL A	.8523411E+02	GAM A	-8188151F-01	HOGA	- 11870715+03
AL TDE	•6410523E+03	LATO	*3495633E+02	(3	.2421548E+03	STOMAA	17228216-02
- 1	1724623E+00	AL PHAA	.3997936E+01	YAW E	1155345E+03	PTCH F	40708125401
_	.1974290E-02	n	3697203E+02	٨	.3048535E+03	3	1218082E+00
VEL R	.8523411E+02	GAM R	.8188161E-01	HOG R	1157671E+03	STGMAR	
BETA P	1724613E+00	ALPHAP	.3997936E+01	-	0.	CNINIA	0.
ONIA-M	0.	SIG-VA	.1811933E-02	SIG-GA	.5854127E-03	STG-HA	02244B4E-03
SIG-H	.1202644E+00	SIG-1A	.3304603E-05	01-918	. 7587641F-05	816-8A	1550088E-02
SIG-BA	.1149684E-03	SIG-AA	.3942623E-03	\$16-YE	*1550938E-02	STG-PE	1149684E-02
SIG-RE	.3942623E-03	SIG-U	.1598591E-U2	S16-V	-2002840F-02	N-517	27.25.00
MACH A	.2488264E+00	MACH R	.2488264E+00	PINE	-9460662F+05	TEMP	20206065
RHD	.1128425E+01	0 A	.4098920E+04	8	-4098919F+04	PSTAG	0877775
۵	1505869E-01	0	1701349E+01		109401 AE +OA	Y ACCE	9
Y ACCEL	.6742374E-01	Z ACCFL	1001059E+02	CXB	0	7 A B V C	0
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opar	4633387E+00	RDOT	2081233E+00				73883282400
	.23200C0E+04	VEL A	-7328507E+02	GAM A	*1052741E+00	HDG A	115A078E+A3
ıl.	*6412124E+03	LATO	.3495478E+02	LUNG	.2421509F+03	SIGMAA	12177065+00
	4274466E-01	ALPHAA	3957730E+01	YAW E	1156635E+03	PTCH	- 28525386401
_	*1221249E+00		3177815E+02	>	. 3156220F+03	I	134467
VEL R	-73285C7E+02	GAM R	.1052741E+00	HDG R	1156978F+03	CAMUL	12177046400
BETA R	4274309F-01	AL PHAR	3957730E+01	U-WIND	0.	VILLIND	O TOTAL STATE OF THE PARTY OF T
M-WIND	0	SIG-VA	.1772973E-02	SIG-GA	.5956421F-03	O T G-HA	9500631E-03
N-918	-1191528E+30	SIG-LA	-3346798E-05	516-10	-7639575F-05	016-01	15504035-03
SIG-84	.1179296E-03	SIG-AA	.4850729F-03	SIG-YF	1550603E-02	016-0E	1170204 5 02
SIG-RE	.4850729E-03	S16-U	*1534465E-U2	SI6-V	1908462E-02	7 TG-17	1169,075-03
MACH A	.2139429E+00	MACH R	.2139429E+CO	PINE	.9460955F+05	TEMP	20207045402
РНО	.1128456E+01	0 A	+3030299E+04	a G	*3030299F+04	PSTAG	07475705+05
d	.6314978E-01	o	9910553E-01	8	.7263672F-01	X ACCE4	24458405401
Y ACCEL	5228162E-11	Z ACCEL	969061 7F+01	CXB	. •0		• •
CZB	• 0	ט	0.	g	0,	1 / D	0.
CL-KDLL	0.	CM-PITCH	•0	CN-YAW	0.	POUT	- 22A1228E A2

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1480	22360005404	VE! A	. 4444047E+02	A MAR	. 6890074F-01	HDG A	1157975E+03
AL TOE	-625000540 -6412307E+03	IATO	3495342F+02	60	.2421475E+03	SIGMAA	.3312991E+00
RETA A	1729859F+00	A P H A A	3834107E+01	YAW E	1156468E+03	PTCH E	-,3766143E+01
ı		=	2814365E+02	٨	.3234405E+03	3	7776735E-01
100	.6466947E+32	GAM R	.6893024E-01	HDG R	1157975E+03	SIGMAR	.3312991E+00
RETA R	-11729850E+00	ALPHAR	3834107E+01	ONIM-D	0.	V-WIND	0.4
17	0	SIG-VA		SIG-6A	.6075086F-03	SIG-HA	.8262680E-03
71G-H	-1182187E+00	SIG-LA	. 3384997E-05	SIG-LD	.7689967E-05	SIG-SA	.1557986E-02
STG-RA	12102795-03	SIG-AA	. 4931267E-03	SIG-YE	.1557986E-02	SIG-PE	.1210279E-03
STG-RF	.49312675-03	0-918	.1505631E-02	SI6-V	.1844100E-02	SIG-W	.1191838E-02
MACH	18879125+00	MACH R	*1887912E+00	PINF	.9460955E+05	TEMP	.2920704E+03
1	1128456F+01	4	-2359680E+04	8 0	.2359630E+04	PSTAG	.9699112E+05
	3725299F-01	1	.3935718E-02		.97047655-01	X ACCEL	2339584E+01
Y ACCEI	.73777426-01	7 ACCEL	9665342E+01	CXB	0.	CYB	0.
7 B	Û	-	•0	CD	0.	470	• 0
- 10 4 - 1		CM-PITCH	0.	CN-YAW	0.	PDDT	2940363E-01
QDDT	2831936E-01	RDOT	.1573098E-01				
I W L	.2330000E+04	VF! A	.5715209E+02	GAM A	.2643288E-01	HDG A	-,1159780E+03
AI TOF	.6413127F+03	LATO	.3495224E+02	1 DNG	2421445E+03	SIGMAA	.2956690E+00
AFTA A	-1746487F+00	AL PHAA	-,3813806E+01	YAW E	1161723E+03	PTCH E	3786421F+01
ĺ	.2962336E+00	=	2503409E+02	>	.3302928E+03	3	2636659E-01
~	.5715209E+02	G M D	.2643288E-01	HDG R	1159780F+03	SIGMAR	.2956690E+00
BETA P	.1746495E+U0	ALPHAR	3813806E+01	U-WIND	0.	UNIW-X	0.
CNLVIN	0.	SIG-VA	.1714901E-02	SIG-6A	.6207426E-03	SIG-HA	*8042808E-03
71 G-H	.1174908E+00	SIG-LA	.3420315E-05	SIG-LD	-7738684E-05	SIG-SA	.1565230E-02
STG-97	.1233073E-03	SIG-AA	.5023623E-03	S16-YE	.1565230E-02	SIG-PE	.1233073E-03
SIGHRE	.5023623E-03	0-91S	.1491154E-02	516-V	.1792292E-02	SIG-W	.1217913E-02
MACH	*1668455E+00	MAC4 R	.1668455E+00	PINF	9460955E+05	TEMP	.2920704E+03
1	.1128456E+01	4	.1842972E+04	a o	.1842972E+04	PSTAG	.954660CE+05
	686C459E-01	o	.3339792E-01	α.	8274653E-01	X ACCEL	1973564E+01
Y ACCEL	2288108E+00	Z ACCEL	9676703E+01	CXB	0.	CYB	0.
C 7 B	•0	10	•0	CD	•0	1/0	0.
CI -R011	0	CM-PITC4	0.	CN-YAW	0.	PDOT	.1500761E+00
1000	- 34 7042 AE-01	PDUT	21554155+00				

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148			THE PROPERTY AND THE PR			4. 13.00	
TIME	.2335000F+04	VF! A	. 4987634F+02	34 4 4	26423055400	V 200	1167/2/67
ALTDE	.6415154E+03	LATD	.3495118F+02	C	. 2421419E+03	3	20540225400
BETA A	.7571873E-01	ALPHAA	4058107E+01	YAW F	1158407E+03	DICH E	- 37024166401
ROLL E	*3058095E+00	Ŋ	2166310E+02	>	-3367497F+03		23001355+00
VEL P	.4937634E+J2	GAM D	.2642305E+00	HDG R	1157434F+03	OTCMAD	30540205400
BETA R	.7571929E-01	ALPHAR	4058107E+01	ONIX-D	0.	VIVIN	0
CNIM-X	•0	SIG-VA	.1687052E-02	SIG-GA	-6353092F-03	Ì	78870585-02
4-9IS	.1169943E+00	SIG-LA	.3453279E-05	STG-1 D	.77856135-05	ì	15725445-03
SIG-BA	.1262543E-03	SIG-AA	.5113911E-03	SIG-YE	-1572566F-02		12625625-02
SIG-PE	.5113911E-03	0-918	-1485475F-02	71G-V	17431965-02	1	12445755-03
MACH A	.1456052E+00	MACH R	.1456052E+00	PINE	0440055E+05	TEMB	20-361604214
RHO	.1128456E+01	40	14036015+04	9	14024016404	7110	60.300.000.00
a	9201616E-01		- 22085405-01		+0.100000+1•	TO AG	. 4602108E+05
Y ACCE	6167806E400	7 400 61	- 044.9797.5.01		Y0302/8E-UL	X ACCEL	2316722E+01
7 7 2 7 7 7	000000000000000000000000000000000000000	ł	10++40/0000	C A B	0	CYB	0.
97	0.0		0.0	g	0.	170	0.
770×-17	0	CM-PITCH	•0	CN-YAW	•0	PDOT	-,3836832E+00
4001	.4919018E-01	RDUT	.1734722E+01				
					The second secon		
TIME	*2340000E+04	VFL A	.4019356E+02	GAM A	-1215835F-01	HDG A	11507365403
AL TDE	•6413574E+03	LATD	.3495030E+02	LONG	.2421397F+03	135	14808065+00
	5097111E+00	ALPHAA	3835929E+01	YAW E	1154738E+03	PTCH F	3825075E+01
-4	•1485138E+00	n	1760304E+02	>	.3455455E+03	*	8529625E-02
VEL R	.4019355E+02	GAM R	.1215895E-01	HDG R	1159736E+03	STGMAR	-1480806F+00
BETA R	5097109E+30	ALPHAR	-,3835929E+01	U-NIND	0.	ONIM-A	0
M-WIND	0.	SIG-VA	*1665421E-02	SIG-6A	.6514056F-03	SIGHHA	.7771557F-03
S16-H	.1167528E+30	SIG-1 A	-3483424E-05	SIG-10	-7830612E-05	SIG-SA	15799195-02
SIG-BA	.1285182E-03	SIG-AA	.5207080E-03	SIG-YE	.1579919E-02	SIG-PF	1285182F-03
SIG-RE	. 5207080E-03	SIG-U	.1495286E-02	516-V	.16928795-02	STG-1	1278208E=02
MACH A	.1173380E+00	MACH R	.1173380E+00	PINE	.9460955F+05	TEMP	29207066+03
жно	.1128456E+01	A 0.	.9115224E+03	<u>د</u> د	.9115223E+03	PSTAG	. 9552452F+05
i	.1711171E-01	0	4458319E-01	~	.3909353E+00	X ACCFI	2852448F+01
Y ACCEL	5331241F-01	Z ACCEL	9649282E+01	CYB	. •0		0
CZB	•0	CL	0.	CD	0,	1/0	0.
CL-RULL	• 0	CM-PITCH	• 0	CN-YAW	0	POOT	.2101551E-01
onot	3456730E-01	RDOT	.5256717E+00				

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7.1	TEN TOTOUTE A	•	30453535+02	SAM A	2166564E-01	HDG A	-,1151505E+03
100			3494961 F+02	1 .	.2421379E+03	SIGMAA	-9808672E-01
ı i		VVIOIV	- 3810550E+01		1147579E+03	PTCH E	3841893E+01
BELA A			1302768F+02	ı	.3539351E+03	M	.1159122E-01
٥	20482826402 GAM	a	2166564F-01	HDG R	1151505E+03	SIGMAR	.9808672E-01
<			38195505+01		•0	ONIM-A	0.
OF LA R		0 T G = V A	.1643065F-02	S16-6A	66874505-03	SIG-HA	.7765445F-03
	11470205400	STG-1A	3510376F-05	516-10	.7873515E-05	SIG-SA	.1587249E-02
H-917		016-AA	529800F-03	SIGHTE	15872495-02	SIG-PE	1313363E-03
A 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			1517004E-02	71G-V	-1648851E-02	SIG-W	1312247E-02
		0	90487585-01	DINE	9460955F+05	TEMP	.2920704E+03
MALH A		1	5301704E+03	a 0	-5301703E+03	PSTAG	.9514096E+05
KHI C	c		7451015F-03	α.	8414549E-01	X ACCEL	2425645E+01
	,	11100	04205055401	a × C	9.5	CYB	•0
CAR	10-37677805	4311	0.	CD	.0	1.70	•0
6 7 3	1 2 0	TOTTOTAL). O.	N W Y I N C	0	PDOT	7161146E-01
000T	5038297E-01	L	2885155E+00				
17	22500005±04 VEI	•	2275187E+02	GAM A	-7176979E-02	HDG A	1154085E+03
		1 0	2404010402		-2421346F+03	SIGMAA	1128943E+00
41.14		441014	- 28550425401	4 N Y	1151308F+03	PTCH E	3849321E+01
BEIA A	11318405400	ТАА	0762118F+01		.3611338E+03		2849942E-02
KT1 2		0	7176980F-02	HDG R	1154085E+03	SIGMAP	.1128943E+0D
DETA D			3855943E+01		0.	CNIW-V	0.
		0 T G - VA	.1632872E-02	SIG-GA	.6869257E-03	SIG-HA	.7841380E-03
	11714405+00	7 16-1 A	.3534859E-05	S16-LD	-7914301F-05	SIG-5A	1594598E-02
CT C = B A		CTG- A A	.5389610E-03	SIG-YE	.1594598E-02	SIG-PE	.1343441E-03
010	1	-	1545633F-02	V-918	.1626551E-02	SIG-W	.1347908E-02
A POLA	1	۵ ت	. 6642006F-01	PINE	.9460955E+05	TEMP	.2920704E+03
A LUNG		i	.29207115+03	<u>م</u>	.2920710E+03	PSTAG	.9490204E+05
סטע	C		.4037062E-01	ļ	-,1451226E+00	X ACCEL	2192080E+01
14004 >	_	ACCEI	9692370E+C1	CXB	9.	CYB	• 0
1 1	כ		•0	CD	0	1.70	• 0
- FDUI -		CM-PITCH	0	CN-YAW	0.	PDUT	2101278F-01

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150				And the second s			
0							
1111	*Z325000E+04	VELA	.1552661E+02	GAM A	.3249402E-01	HDG A	1155282E+03
11	•	LATO	.3494873E+02	LONG	.2421356E+03	SIGMAA	.902484F-01
_	3150419E+00	ALPHAA	3880413E+01	YAW F	1152192E+03	PTCH F	3848411F+01
_	.9063009E-01		6691260E+01	^	*3676758F+03		- 88055456-02
Ω1	.1552660E+02	GAM R	.3249402E-01	HDG R	1155282F+03	STOMAD	0024846-01
BETA R	3150441E+00	AL PHAR	3880413F+01	U-WIND	0.	CNIM->	0
CNTA-M	0	SIG-VA	.1627689E-02	SIG-6A	-3487663E-02	STG-HA	. 1012502E-02
У16-Н	.1178342E+00	SIG-LA	.3557467E-05	S16-1 D	-7952942E-05	S 16-5 A	15528725-02
STG-BA	.1357957E-03	SIG-AA	.4083455F-03	SIG-YE	-1552873F-02	016-PE	12570575-02
SIG-RE	*4088455E-U3	S16-U	-1575337E-02	V-918	-1615005E-02	N 1 G - W	12840225-03
MACH A	4532719E-01	MACH R	.4532719F-01	PINE	-9460955F+05	TEMP	20207076103
DHa	*1128456E+01	A 0	.1360215F+03	о 8	-1360215F+03	DATAG	04748405406
,	.2020266E-01	o	.5495479F-02		17228405+00	Y ACCE	- 24042426
Y ACCEL	-3607580E-01	Z ACCEL	9646833E+01	CXB	0	V 8 V	AZDU4303E+U1
CZR	0.	7	0.	C	0.		
CL -8011	0.	CM-PITCH	0	N-VAV	O.	1000	20.75055
PDDT	1019367E+30	RDJT	9882545E-01			Trans	00+=101701
TEME	2350000E+04	VE! A	74.000515404	3			
AL TDE	*6412843E+03	c	34949516403	A DAG	-2083850=+00	HDG A	1154902E+03
BETA A	29447775+00	ALDUAA	- 4000000	5 N N N N N N N N N N N N N N N N N N N	2421351E+03	~	.8144746F-01
l	. 8270461E-01	H - 1 A A	- 21004030E+01	YAN E	1152016E+03	PTCH E	3881861E+01
۵	76.004.004.	2	3168 423E+01	- 1	. 3750000E+03	7	2694610E-01
<	10+10+000+04	A FEE	-2083861F+00	40G R	1154902E+03	SIGMAR	.8144744E-01
	00+3++0++4-70	ALVHAY	4089830€+01	ONIM-D	•0	V-WIND	•0
CTG-H	1199000011	AVE STO	•16/8269E-02	216-6A	.3586759E-02	SIG-HA	.4030329E-02
CT C-BA	12003275 22	A 1-012	43/8052E-05	216-10	-7989368E-05	STG-5A	*1559227E-02
OTC-DE	413096346-03	215-AA	.4170145E-03	SIG-YE	-1559227E-02	SIG-PE	.1389234E-03
4 7 7 7 7	21 (2007 0 2	_	.1617609E-02	216-V	1611521E-02	SIG-W	*1424284E-02
1	1130757	a	.2162983E-01	PINF	.9450955E+05	TEMP	.2920704F+03
000	1043044004	4	.3097107E+02	0 K	.3097105E+02	PSTAG	.9464054E+05
1000	3133311E-04	- 1	•1984517E-61	~	.3652706E+00	X ACCEL	2239659E+01
	0 243/310E=11	Z ACCEL	9639789E+01	CXB	•0	CYB	0.
1.00-17	•		0.	CO	0.	T/D	•0
ODOT	- 1000000	CH-PITCH	0.	CN-YAW	0.	PDOT	6496345E-01
- 0 0	TA-30000403.	160	.2584002E+00				

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TIME	-2365000F+04	VEL A	.20562176+00	GAM A	-,1135438E+02	HDG A	.6342108E+02
A! TOF	.6412202F+03	LATO	*3494844E+02	LONG	.2421349E+03	SIGMAA	1797482E+03
RFTA A	17133576+01	ALPHAA	.1648206E+03	YAW E	-1148556E+03	PTCH E	3822580E+01
1	.9074703E-01	n	.9020073E-01	>	.3818682E+03	3	.4048215E-01
œ	.2056240E+00	GAM R	1135426E+02	HDG R	.6342140E+02	SIGMAR	1797483E+03
BETA R	.1713035E+01	ALPHAR	.1648208E+03	ONI M-D	•0	ONIMO	0.
CNINI	•0	SIG-VA	•1636719E-02	SIG-GA	.3689205E-02	SIG-HA	*4146269E-02
SIG-H	.1203340E+00	SIG-LA	.3596944E-05	SIG-L0	.8023573E-05	SIG-SA	.1565891E-02
SIG-8A	.1423637E-03	SIG-AA	.4242909E-03	SIG-YE	.1565891E-02	SIG-PE	•1423637E-03
SIG-RE	.4242909E-03	SIG-U	.1662587E-02	SI6-V	.1620150E-02	SIG-W	.1464967E-02
MACH A	.6002765E-03	MACH R	•6002831E-03	PINF	.9460955E+05	TEMP	.2920704E+03
i	.1128456E+01	4	.2385572E-01	8	.2385625E-01	PSTAG	. 9460958E+05
۵	6210446F-01	Į.	.2385922E+00		1147329E-01	X ACCEL	9015909E+00
Y ACCE!	8591171E-02	ZACCEL	9592399E+01	CXB	•0	CYB	0.
C7 B	0	- 1	0	CD	0.	1/0	0.
- 10 2 - 10	0	CM-PITCH	0	CN-YAW	0.	PDOT	7116460E-01
00 O T	.1759956E+00	RDOT	,6192946E-01				
THE	-2370000E+04	VEI A	-2888075E-01	GAM A	4587346E+02	HDG A	.5556555E+02
AI TOF	. 6409881F+03	IATO	34948445+02	LONG	.2421349E+03	SIGMAA	1731384E+03
BFTA A	.6729493E+01	AL PHAA	.1299594E+03	YAW E	1148410E+03	PTCH E	3770488E+01
RO 1	.8644516E-01	n	.1137038E-01	>	.3817045E+03	H	. 2073071E-01
<u>α</u>	.2888223E-01	GAM R	4587044E+D2	HDG R	.5556970E+02	SIGMAR	1731418E+03
BFTA R	.6726982E+31	ALPHAR	.1299628E+03	U-WIND	•0	V-WIND	
CNL	0	SIG-VA	.1650935E-62	SI G-6A	.3778016E-02	SIG-HA	.4145691E-02
AT G-H	.1221943E+00	SIG-1A	.3616103E-05	SIG-10	*8055736E-05	SIG-5A	.1572569E-02
SI 6-8A	.1456706E-03	STG-AA	.4316412E-03	SIG-YE	.1572569E-02	SIG-PE	*1456706E-03
SIG-RE	.4316412E-03	0-9IS	.1654850E-02	7-9 IS	.1642238E-02	SIG-W	.1500234E-02
MACH	.8431220E-04	MACHR	.8431652E-04	PINF	*9461075E+05	TEMP	.2920709E+03
1	.1128469E+01	A O	. 4706263E-03	a 0	.4706746E-03	PSTAG	.9461075E+05
d	1428664E-01	0	.1063401E-01	~	.6517291E-02	X ACCEL	6195845E+00
Y ACCEL	.3104296E-01	Z ACCEL	9777910E+01	CXB	٥,	CYB	0.
CZB	•0	1 3	•0	do	*0	1/0	0.
CL-ROLL	0	CM-PITCH	64	CN-YAW	•0	PDOT	.2976424E-02
1000	- 2740729E-02	TOUG	4753002F-02				

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TIME	.2375000E+04	VEL A	.1793106E-01	GAM A	7660521E+02	HDG A	. 08281856+01
a a d	•6409247E+03	LATD	.3494844E+02	LONG	*2421349E+03	SIGMAA	1254297F+03
ı	•1106384E+02	ALPYAA	• 9395223E+02	YAW E	1148528E+03	PTCH E	3765560E+01
KULL F	•8200729E-01	n	.4092938E-02	۸	.3816896E+03	*	17443295-01
VEL R	•1793117F-01	GAM R	7660384E+02	HDG R	.9863217E+01	SIGMAR	1254652F+03
BEIA R	.1106025E+02	ALPHAR	.9395978E+02	ONIM-O	•0	CNIM-A	-0
CNIM-N	• 0	SIG-VA	.1671965E-02	SIG-GA	.3869098E-02	SIG-HA	-4197833E-02
SIG-H	.1244865E+UC	SIG-LA	•3637014E-05	SIG-LD	.8086003E-05	S 16-5A	1579001 5-02
SIG-BA	-1490478E-03	SIG-AA	.4394585E-03	\$16-YE	1579091F-02	STG-PF	.1490478F=03
SIG-RE	.4394585E-03	SIG-U	.1670797E-02	SIG-V	•1668164E-02	V-617	15364035=02
MACH A	.5234644E-04	MACH R	.5234674E-04	PINF	.9461428F+05	TEMP	20207216403
вно	.1128506E+01	D A	.1814203E-03	α σ	.1814224F-03	PSTAG	04614295405
	3077485E-02	o	.2940144E-02		1194316F-01	X ACCE	- 44284015+00
Y ACCEL	.8710870E-02	ZACCFL	9778117E+01	CXB	0-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0
CZB	0	10	-0	0	(1)		V •
CL ROLL	°	CM-PITCH	Č	3 4 > 1 % C		+000	
QDDT	1004019E-01	RDDT	,1516827E-01				
TIME	.239000E+04	VEL A	*2226873E-01	GAM A	7293095409	V 307	10411466403
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15. Supplementary Notes Langley Technical Monitor:	: Harold R. Compt	on		
A discussion of the general Space Shuttle Orbiter entry presented. This work was Analytical Mechanics Associand (combined with the best mation Retrieval System (Lentry from an altitude of appearance of the second and Edwards Air Force I least squares batch filter a from the Inertial Measurem was constrained in a weight ground based S-band and C-during and post rollout wer Appendix A is presented This includes both software ables and coordinate system Appendix B. Though the results, it is virtually impose C is included which provide	flight (STS-1) as responsored by NASA ciates, Inc. The Be available atmospheration of the proximately 183 km Base. The inertial lgorithm. Spacecrated the contained by proceed to provide for a ge and data interface ms utilized. STS-1 eport contains table sible to present all	eported by LaRC under as defined	y Compton, et a der Contract Notes a time historiand by the Land parameters the strong were estimated and accellate to predict the strong fit external tracented spacecraft strong all altimeters cussion of the spacecraft appeculiar inputs appeculiar inputs ares which show mation in this for	l., in Reference 1 is b. NAS1-16087 to the ry of the state, attitude, gley Atmosphere Infor- roughout the Shuttle on the Roger's dry lake ted utilizing a weighted leration data derived state and attitude which eking data consisting of altitude and velocity and Doppler data. BET generation process definition of the vari- are summarized in the more relevant re- orm. Thus, Appendix
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